

BARNARD COLLEGE



BARNARD COLLEGE

The Undergraduate
College of Liberal
Arts for Women of
Columbia University
1971-1972



Morningside Heights
New York, N.Y. 10027

The post office address is Barnard College, 606 West 120th Street, New York, N.Y. 10027. The telephone number is (Area Code 212) 280-1754.

Inquiries should be addressed as follows:

General matters pertaining to the College: **Office of the President**

Academic work of students: **Class Advisers**

Admission to the freshman class or with advanced standing;
information about financial aid for entering students; request
for Announcements: **Director of Admissions**

Alumnae: **Director of Alumnae Affairs**

Faculty and curriculum matters: **Office of Dean of the Faculty**

Financial aid and loan funds for students in college: **Director of Financial Aid**

Gifts or bequests: **Director of Development**

Health: **College Physician**

Housing: **Director of Residence**

Notice of withdrawal: **Dean of Studies**

Opportunities for self-help; recommendations for employment:
Office of Placement and Career Planning

Payment of College bills: **Bursar**

Public relations: **Director of Public Relations**

Requests for transcripts: **Registrar**

Student Activities: **Director of the Millicent McIntosh Center**

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Calendar for 1971-1972

September 1971	S M T W T F S S M T W T F S S M T W T F S 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30
October 1971	S M T W T F S S M T W T F S S M T W T F S 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31
November 1971	S M T W T F S S M T W T F S S M T W T F S 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30
December 1971	S M T W T F S S M T W T F S S M T W T F S 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31
January 1972	S M T W T F S S M T W T F S S M T W T F S 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31
February 1972	S M T W T F S S M T W T F S S M T W T F S 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29
March 1972	S M T W T F S S M T W T F S S M T W T F S 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31
April 1972	S M T W T F S S M T W T F S S M T W T F S 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30
May 1972	S M T W T F S S M T W T F S S M T W T F S 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31
June 1972	S M T W T F S S M T W T F S S M T W T F S 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30
July 1972	S M T W T F S S M T W T F S S M T W T F S 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31
August 1972	S M T W T F S S M T W T F S S M T W T F S 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31
September 1972	S M T W T F S S M T W T F S S M T W T F S 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30

- Aug. 2** Monday. Last day for refund of Autumn Term deposit.
- Sept. 1** Wednesday. Final payments due, Autumn Term. Last day for filing applications for deferred examinations.
- 27** Monday. Language Placement Examinations.
- 28** Tuesday, and Sept. 29, Wednesday. Registration in person for Autumn Term.
 Tuesday — Seniors and Juniors.
 Wednesday — Sophomores, Freshmen, readmitted and transfer students.
 Deferred examinations for students absent from the May, 1971, final examinations in Barnard courses.
- 30** Thursday. Autumn Term, eighty-third year begins. Classes begin 9 a.m. Convocation, 1 p.m.
- Oct. 11-15** Deferred examinations for students absent from the May, 1971, final examinations in Columbia courses.
- 14** Thursday, and Oct. 15, Friday. Program filing. Last day for adding a course, Autumn Term.
- 22** Friday. Last day for filing requests for pass-fail grades in Autumn Term courses.
 Last day for filing diploma name cards for the degree in February, 1972.
- 27** Wednesday. Award of October degrees.
- Nov. 2** Tuesday. Election Day. Holiday.
- 17** Wednesday. Midterm date.
- 23** Tuesday. Annual Thanksgiving Service in St. Paul's Chapel.
- 25** Thursday, through Nov. 28, Sunday. Thanksgiving holidays.
- Dec. 1** Wednesday. Last day for refund of Spring Term deposit.
- 2** Thursday. Required meetings for planning programs.
- 16** Thursday. Last day for filing tentative Spring Term programs.
- 17** Friday. Last day for dropping a course, Autumn Term.
- 18** Saturday, through Jan. 2, 1972, Sunday. Christmas holidays. Residence halls closed.
- Jan. 5** Wednesday, through Jan. 7, Friday. Major examinations for February graduates.
- 16** Sunday. Annual Commemoration Service in St. Paul's Chapel.
- 17** Monday. Final payments due, Spring Term.
- 24** Monday. Midyear examinations begin.
- Feb. 3** Thursday. Autumn Term ends.
- 4** Friday. Language Placement Examinations.

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- 7 Monday, and Feb. 8, Tuesday. Registration in person for Spring Term.
Monday — Seniors and Juniors.
Tuesday — Sophomores, Freshmen, readmitted and transfer students.
 - 9 Wednesday. Spring Term begins. Classes begin 9 a.m.
 - 11 Friday. Last day for filing application for financial aid for 1972-73.
Last day for filing diploma name cards for the degree in June, 1972.
 - 18 Friday. Last day for filing applications for deferred examinations in Barnard courses and "V" courses.
 - 21 Monday. Washington's Birthday. Holiday.
 - 23 Wednesday. Award of February degrees.
Wednesday, and Feb. 24, Thursday. Program filing. Last day for adding a course, Spring Term.
 - Mar. 1 Wednesday. Last day for filing applications for deferred examinations in Columbia courses (except "V" courses; see Feb. 18).
Last day for submitting work for courses in which grades of Inc (incomplete) were given in Fall Term.
 - 2 Thursday. Last day for filing requests for pass-fail grades in Spring Term courses.
 - 8 Wednesday, through Mar. 10, Friday. Deferred examinations for students absent from the January, 1971, final examinations in Barnard courses.
 - 31 Friday. Midterm date.
 - Apr. 1 Saturday, through Apr. 9, Sunday. Spring holidays.
 - 10 Monday, through Apr. 14, Friday. Deferred examinations for students absent from the January, 1972, final examinations in Columbia courses.
 - 14 Friday. Last day for dropping a course, Spring Term.
 - 18 Tuesday. Required meetings for planning programs.
 - 26 Wednesday, through Apr. 28, Friday. Major examinations for June and October graduates.
 - May 12 Friday. Last day for filing tentative Autumn Term programs.
 - 15 Monday. Last day for payment of deposit for 1972-73 academic year.
 - 18 Thursday. Last day for filing diploma name cards for the degree in October 1972.
 - 22 Monday. Final examinations begin.

- June 1 Thursday. Spring Term ends.
4 Sunday. Baccalaureate Service.
6 Tuesday. Conferring of degrees.



**Trustees of
Barnard College**

<i>Chairman</i>	Wallace S. Jones
<i>Vice-Chairman</i>	Francis T. P. Plimpton
<i>Vice-Chairman</i>	Robert L. Hoguet
<i>Clerk</i>	Mrs. Frank Altschul
	Mrs. Hugh Auchincloss
	Mrs. Jonathan Bingham
	Walter J. P. Curley, Jr.
	Mrs. John Elliott, Jr.
	Richard M. Furlaud
	Arthur J. Goldberg
	Roy M. Goodman
	Mrs. Iola S. Haverstick
	Robert S. Hutchins
	Mrs. Eliot Janeway
	William A. Marsteller
	President William J. McGill, <i>ex officio</i>
	Samuel R. Milbank
	Miss Martha Peterson
	Mrs. Sydney S. Spivack
	Miss Barbara M. Watson
	Mrs. Frederick J. Woodbridge
	Mrs. Talcott Bates, <i>Alumnae Trustee</i>
	Mrs. John A. H. Carver, <i>Alumnae Trustee</i>
	Mrs. Lewis Goldenheim, <i>Alumnae Trustee</i>
	Mrs. Henry C. Pannell, <i>Alumnae Trustee</i>
	Mrs. Arthur H. Sulzberger, <i>Trustee Emeritus</i>

FACULTY REPRESENTATIVES TO MEET WITH TRUSTEES

Professor Joann Morse
Professor Donald D. Ritchie

The Faculty of Barnard College

Martha Peterson, 1967, *President of Barnard College and Dean in the University*

A.B., M.A., Ph.D., Kansas; LL.D., L.H.D.

LeRoy C. Breunig, 1953, *Dean of the Faculty and Professor of French*

A.B., DePauw; Ph.D., Cornell

Barbara S. Schmitter, 1957, *Dean of Studies and Associate Professor of Psychology*

A.B., Nebraska; M.A., Columbia

Helen H. Bacon, 1961, *Professor of Greek and Latin*

A.B., Ph.D., Bryn Mawr

Helen Phelps Bailey, 1933, *Professor of French*

A.B., Barnard; M.A., Ph.D., Columbia

Bernard Barber, 1952, *Professor of Sociology*

A.B., M.A., Ph.D., Harvard

Barnett F. Baron, 1970, *Assistant Professor of Political Science*

A.B., New York University; M.A., Ph.D., Yale

Annette K. Baxter, 1952, *Professor of History*

A.B., Barnard; M.A., Smith, Radcliffe; Ph.D., Brown

Brigitte L. Bradley, 1962, *Associate Professor of German*

A.B., William and Mary; D. d'Université, Strasbourg; M.A., Ph.D., Columbia

Absent on leave, Spring Term.

Alice Braunwarth, 1969, *Instructor in Physical Education*

A.B., Hunter; M.S., Springfield

Joseph Gerard Brennan, 1947, *Professor of Philosophy*

A.B., Boston College; M.A., Harvard; Ph.D., Columbia

Demetrios Caraley, 1961, *Professor of Political Science*

A.B., Ph.D., Columbia

Patricia Carpenter, 1961, *Assistant Professor of Music*

A.B., California; Ph.D., Columbia

Luz Castaños, 1967, *Associate in Spanish*

A.B., M.A., Hunter

Elizabeth Louise Caughran, 1956, *Associate in English*

A.B., Russell Sage; M.A., Columbia

Absent on leave, Spring Term.

Joy Chute, 1964, *Adjunct Associate Professor of English*

Edward S. Cobb, 1963, *Assistant Professor of Psychology*

A.B., M.A., Ph.D., Columbia

William A. Corpe, 1956, *Professor of Biology*

A.B., M.A., Wisconsin; Ph.D., Pennsylvania State

Eva Corredor, 1968, *Instructor in French*

Dipl. de l'Ecole des Langues Orientales

- Dennis G. Dalton, 1969, *Associate Professor of Political Science*
A.B., Rutgers; M.A., Chicago; Ph.D., London
- Elizabeth C. Dalton, 1965, *Associate in English*
A.B., California; M.A., Ohio State
- Lynn Davis, 1970, *Instructor in Political Science*
A.B., Duke; M.A., Columbia
- Gay A. Delanghe, 1966, *Associate in Physical Education*
A.B., M.A., Michigan
- Hervé Denis, 1971, *Instructor in French*
Licence ès Sciences Economiques, Faculté de Droit de Paris
- Bette Stubing Denitch, 1968, *Assistant Professor of Anthropology*
A.B., Antioch; Ph.D., California
- Samuel Devons, 1970, *Professor of Physics*
B.A., M.A., Ph.D., Cambridge University
- Marjorie Housepian Dobkin, 1957-59; 1960, *Associate in English*
A.B., Barnard
- Hubert Doris, 1957, *Professor of Music*
A.B., Harvard; M.A., Columbia
- Sigalia Dostrovsky, 1971, *Assistant Professor of Physics*
A.B., Vassar; M.A., Ph.D., Princeton
- Patricia L. Dudley, 1959, *Associate Professor of Biology*
A.B., M.A., Colorado; Ph.D., Washington
- Lois A. Ebin, 1969, *Assistant Professor of English*
A.B., Smith; M.A., Ph.D., Columbia
- David W. Ehrenfeld, 1967, *Associate Professor of Biology*
A.B., M.D., Harvard; Ph.D., Florida
- Hester A. Eisenstein, 1970, *Assistant Professor of History and Coordinator of the Experimental College*
A.B., Radcliffe; M.A., Ph.D., Yale
- John T. Elliff, 1967, *Assistant Professor of Political Science*
A.B., De Pauw; M.A., Ph.D., Harvard
- Ann Fagan, 1969, *Assistant Professor of History*
A.B., Carleton; Ph.D., Bryn Mawr
- Absent on leave, Spring Term.
- Patricia N. Farnsworth, 1967, *Assistant Professor of Biology*
A.B., Morningside; M.S., Ph.D., Columbia
- Bruce Feld, 1968, *Instructor in Political Science and Urban Studies*
B.B.A., Miami; M.A., Rutgers
- Daniel Field, 1970, *Assistant Professor of History*
A.B., M.A., Ph.D., Harvard

- Barbara M. Fitts, 1969, *Instructor in Physical Education*
B.S., Boston
- Annette B. Fox, 1966, *Lecturer in Political Science*
A.B., Ph.D., Chicago
- Richard M. Friedberg, 1968, *Associate Professor of Physics*
A.B., Harvard; M.A., Ph.D., Columbia
- Patrick X. Gallagher, 1965, *Professor of Mathematics*
A.B., Harvard; Ph.D., Princeton
- Theodor H. Gaster, 1966, *Professor of Religion*
A.B., M.A., London; Ph.D., Columbia; D.D., Vermont
- Serge Gavronsky, 1960, *Associate Professor of French*
A.B., M.A., Ph.D., Columbia
Absent on leave, 1971-72.
- Renée Geen, 1956, *Associate Professor of French*
A.B., Brooklyn; M.A., Wisconsin; Ph.D., Columbia
- Sandra Genter, 1961, *Associate in Physical Education*
A.B., Wisconsin; M.A., Columbia
- Marion Hamilton Gillim, 1952, *Professor of Economics*
A.B., Mount Holyoke; M.A., Ph.D., Columbia
- Jean A. Gooch, 1964, *Associate Professor of Economics*
A.B., California; M.A., Ph.D., Columbia
- Patricia Albjerg Graham, 1965, *Associate Professor of Education*
B.S., M.S., Purdue; Ph.D., Columbia
- Tatiana Greene, 1946, *Associate Professor of French*
Candid. en Droit, Brussels; M.A., Ph.D., Columbia
- Richard F. Gustafson, 1965, *Professor of Russian*
A.B., Yale; Ph.D., Columbia
- Danielle Haase-Dubosc, 1962, *Assistant Professor of French*
A.B., Barnard; M.A., Columbia
- Elizabeth Hardwick, 1965, *Adjunct Associate Professor of English*
A.B., M.A., Kentucky
- Anthony G. Henderson, 1964, *Assistant Professor of English*
A.B., Harvard; B.A., Cambridge; Ph.D., Columbia
- Elizabeth A. Howe, 1970, *Instructor in Political Science and Urban Studies*
A.B., Barnard; M.A., Chicago
- Kenneth H. Janes, 1961, *Associate Professor of English and Director of Minor Latham Playhouse*
- Peter H. Juviler, 1964, *Associate Professor of Political Science*
B.E., M.E., Yale; M.A., Ph.D., Columbia
- Clive S. Kessler, 1970, *Assistant Professor in Anthropology*
B.A., University of Sydney

- Edward J. King, 1946, *Professor of Chemistry*
A.B., *State University of Iowa*; Ph.D., *Yale*
- Grace W. King, 1960, *Lecturer in Chemistry*
A.B., *Maine*; Ph.D., *Yale*
- Ruth M. Kivette, 1952, *Associate Professor of English*
A.B., *Barnard*; M.A., Ph.D., *Columbia*; B.D., *Union Theological Seminary*
- Morton Klass, 1965, *Professor of Anthropology*
A.B., *Brooklyn*; Ph.D., *Columbia*
Absent on leave, 1971-72.
- Stephen E. Koss, 1966, *Professor of History*
A.B., M.A., Ph.D., *Columbia*
- John Kouwenhoven, 1946, *Professor of English*
A.B., *Wesleyan*; M.A., Ph.D., *Columbia*
- Jacqueline I. Kroschwitz, 1968, *Assistant Professor of Chemistry*
B.S., *Ursinus*; Ph.D., *Pennsylvania*
- Maire S. Kurrik, 1968, *Assistant Professor of English*
A.B., *Vassar*; Ph.D., *Harvard*
- Polykarp Kusch, 1962, *Professor of Physics*
B.S., *Case Institute*; M.S., Ph.D., *Illinois*; Nobel Laureate; Sc.D.
- Patricia H. Labalme, 1961-64; 1965, *Lecturer in History*
A.B., *Bryn Mawr*; M.A., Ph.D., *Radcliffe*
- Sue Howard Larson, 1965, *Associate Professor of Philosophy*
A.B., Ph.D., *Stanford*
Absent on leave, Spring Term.
- Gordana Lazarevich, 1969, *Assistant Professor of Music*
M.S., *Juilliard*; Ph.D., *Columbia*
- Marina Ledkovsky, 1969, *Assistant Professor of Russian*
Ph.D., *Columbia*
- Ethna Lehman, 1968, *Assistant Professor of Sociology*
A.B., *College of New Rochelle*; M.A., *Fordham*
- Lydia H. Lenaghan, 1962, *Associate Professor of Greek and Latin*
A.B., *Barnard*; M.A., Ph.D., *Bryn Mawr*
- Linda Lerner, 1968, *Instructor in Physical Education*
B.S., *Skidmore*; M.A., *Columbia*
- Maristella de Panizza Lorch, 1951, *Professor of Italian*
Dott. in Lett. e Filos, Rome
Absent on leave, Spring Term.
- Julia L. Makarushka, 1971, *Assistant Professor of Sociology*
A.B., *LeMoyne*
- Joseph L. Malone, 1967, *Associate Professor of Linguistics*
A.B., M.A., Ph.D., *California*
- Edith Mason, 1956, *Associate in Physical Education*
B.S., *Winthrop*; M.S., *Louisiana State*

- Barbara Mates, 1962, Assistant Professor of Psychology
A.B., M.A., Brooklyn; M.A., Ph.D., Columbia
- Alexander R. Mazziotti, 1970, Assistant Professor of Chemistry
B.S., Seton Hall; Ph.D., Pennsylvania State
- Robert A. McCaughey, 1969, Assistant Professor of History
A.B., Rochester; M.A., North Carolina; Ph.D., Harvard
- Elisabeth McLaughlin, 1970, Instructor in German
B.S., M.A., Columbia
- John Meskill, 1960, Professor of Chinese and Japanese
A.B., Harvard; Ph.D., Columbia
- Gladys Meyer, 1948, Associate Professor of Sociology
A.B., Wellesley; Ph.D., Columbia
- Kathleen Micklow, 1965, Instructor (Part-time) in French
A.B., Barnard; M.A., Columbia
- Deborah D. Milenkovitch, 1965, Associate Professor of
Economics
A.B., Radcliffe; Ph.D., Columbia
- Barbara S. Miller, 1968, Assistant Professor of Oriental Studies
A.B., Barnard; M.A., Columbia; Ph.D., Pennsylvania
- Ellen Moers, 1968, Adjunct Associate Professor of English
A.B., Vassar; M.A., Radcliffe; Ph.D., Columbia
- Joann Ryan Morse, 1957, Associate Professor of English
A.B., Vassar; M.A., Yale
- Mary Mothersill, 1963, Professor of Philosophy
A.B., Toronto; M.A., Ph.D., Radcliffe
- Onora S. Nell, 1970, Assistant Professor of Philosophy
B.A., Oxford; Ph.D., Harvard
- Richard A. Norman, 1954, Professor of English
A.B., George Washington; M.A., Ph.D., Columbia
- Barbara Novak, 1958, Professor of Art History
A.B., Barnard; M.A., Ph.D., Radcliffe
- Absent on leave, Autumn Term.
- Dorothea Nyberg, 1968, Associate Professor of Art History
A.B., Toronto; M.A., Ph.D., New York University
- Absent on leave, Spring Term.
- Brian O'Byrne, 1970, Assistant Professor of Mathematics
Ph.D., Cornell
- Maria March de Orti, 1965-67; 1968, Assistant Professor of
Spanish
A.B., California; M.A., Washington; Ph.D., Columbia
- Donald Pace, 1968, Instructor in English
A.B., Washington; M.A., Columbia
- Elaine H. Pagels, 1970, Assistant Professor of Religion
A.B., M.A., Stanford

- Remington P. Patterson, 1955, *Associate Professor of English*
A.B., M.A., Ph.D., Yale
 Absent on leave, Spring Term.
- Thomas B. Perera, 1966, *Assistant Professor of Psychology*
A.B., M.A., Ph.D., Columbia
- Frederick G. Peters, 1970, *Assistant Professor of German*
A.B., Pennsylvania; M.A., Columbia; B.Litt., Oxford; Ph.D., Cambridge
- Marion R. Philips, 1945-55; 1958, *Assistant Professor of Physical Education*
A.B., Hunter; M.A., Columbia
- Randolph D. Pope, 1969, *Instructor in Spanish*
Lic. en Leng. y Lit. Espanola Universidad Catolica de Valparaiso
- Anne Lake Prescott, 1959-62; 1963, *Assistant Professor of English*
A.B., Barnard; M.A., Ph.D., Columbia
- Basil Rauch, 1941, *Professor of History*
A.B., Notre Dame; Ph.D., Columbia
- Hermine Riffaterre, 1961, *Assistant Professor of French*
A.B., Hunter; M.A., Columbia; B. es L., Toulouse; Ph.D., Columbia
- Donald D. Ritchie, 1948, *Professor of Biology*
A.B., B.S., Furman; M.A., Ph.D., North Carolina
- Paul Ritterband, 1970, *Assistant Professor of Sociology*
A.B., Yeshiva; Ph.D., Columbia
- David A. Robertson, Jr., 1940, *Millicent Carey McIntosh Professor of English*
A.B., M.A., Ph.D., Princeton
- Jeanette Schlottmann Roosevelt, 1951-58; 1962, *Associate in Physical Education*
B.S., M.A., Texas Woman's University
- Eleanor Rosenberg, 1953, *Professor of English*
A.B., Barnard; M.A., Ph.D., Columbia
- Abraham Rosman, 1966, *Associate Professor of Anthropology*
A.B., City University of New York; Ph.D., Yale
- R. Christine Royer, 1965, *Instructor in English*
A.B., Western Maryland; M.A., Pennsylvania
- Paula G. Rubel, 1965, *Associate Professor of Anthropology*
A.B., Hunter; Ph.D., Columbia
- Susan R. Sacks, 1971, *Assistant Professor of Education and Psychology*
A.B., Northwestern; M.A., Western Reserve
- Gertrud M. Sakrawa, 1952, *Associate Professor of German*
M.A., Columbia; Ph.D., Vienna, Columbia

- John E. Sanders, 1969, *Professor of Geology*
A.B., *Ohio Wesleyan*; Ph.D., *Yale*
- Anatol K. Sapronow, 1966, *Associate in Russian*
Russian Gymnasium, Belgrade
- Marianna Greene Sapronow, 1967, *Instructor in Russian*
Russian Gymnasium, Munich
- Raymond J. Saulnier, 1938, *Professor of Economics*
B.S., *Middlebury*; M.A., *Tufts*; Ph.D., *Columbia*; LL.D.,
Middlebury, Babson Institute
Absent on leave, Autumn Term.
- Sylvie Sayre, 1969, *Instructor in French*
Agrégation, U. of Paris
- Bernice Segal, 1958, *Associate Professor of Chemistry*
A.B., *Radcliffe*; Ph.D., *Columbia*
- Mirella d'Ambrosio de Servodidio, 1964, *Associate Professor*
of Spanish
A.B., *Barnard*; M.A., Ph.D., *Columbia*
- Ann C. Sheffield, 1969, *Instructor in Greek and Latin*
A.B., *Smith*; M.A., *Stanford*
- Maurice Z. Shroder, 1965, *Professor of French*
B.S., *Northwestern*; M.A., Ph.D., *Harvard*
Absent on leave, Spring Term.
- Garrett A. Smith, Jr., 1970, *Instructor in Geography*
A.B., *Rochester*; M.A., *Harvard*
- John B. Snook, 1968, *Assistant Professor of Religion*
A.B., *Harvard*; B.D., *Union Theological Seminary*; Ph.D.,
Columbia
- Domna Callimanopulos Stanton, 1962, *Assistant Professor of*
French
A.B., *Wellesley*; M.A., *Columbia*
- Catharine R. Stimpson, 1963, *Assistant Professor of English*
A.B., *Bryn Mawr*; B.A., *Cambridge*; Ph.D., *Columbia*
- Howard M. Teichmann, 1946, *Adjunct Professor of English*
A.B., *Wisconsin*
- Patricia Terry, 1958, *Lecturer in French*
A.B., *Wellesley*; M.A., Ph.D., *Columbia*
- Janice Farrar Thaddeus, 1956, *Lecturer in English*
A.B., *Barnard*; M.A., Ph.D., *Columbia*
- Eleanor M. Tilton, 1950, *Professor of English*
A.B., *Mount Holyoke*; M.A., *Boston*; Ph.D., *Columbia*
- Zoya A. Trifunovich, 1959, *Associate in Russian*
B.S., M.A., *Columbia*
- Margarita Ucelay, 1943, *Professor of Spanish*
Bach. Instituto-Escuela de Madrid; M.A., Ph.D., *Columbia*

- Barry Ulanov, 1951, *Professor of English*
A.B., Ph.D., Columbia; Litt.D., Villanova
- Joan E. Vincent, 1968, *Associate Professor of Anthropology*
B.Sc., London School of Economics; M.A., Chicago; Ph.D., Columbia
- Frederick E. Warburton, 1963, *Associate Professor of Biology*
B.Sc., M.Sc., Ph.D., McGill
- Marcia L. Welles, 1970, *Instructor in Spanish*
A.B., Barnard; M.A., Middlebury
- Suzanne F. Wemple, 1966, *Assistant Professor of History*
A.B., California; M.L.S., Ph.D., Columbia
- Chilton Williamson, 1942, *Professor of History*
A.B., M.A., Ph.D., Columbia
- George Woodbridge, 1960, *Associate Professor of History*
A.B., M.A., Columbia; Ph.D., Wisconsin
- Richard Youtz, 1937, *Professor of Psychology*
A.B., Carleton; Ph.D., Yale
- Leonard Zobler, 1955, *Professor of Geography*
B.S., M.S., Washington State; Ph.D., Columbia
- Forrest L. Abbott, 1953, *Treasurer and Controller*
B.S., Southwest Missouri State Teachers; M.A., Ed.D., Columbia
- Mary Helen McMahon, 1969, *Registrar*
B.S., M.A., Saint Louis
- Robert B. Palmer, 1967, *Librarian*
M.A., Middlebury; M.S., Simmons
- Natalie Sonevytsky, 1959, *Reference Librarian*
A.B., New Rochelle; M.S., Columbia

Faculty Emeriti

- William Haller, 1909-1950, *Professor Emeritus of English*
Ph.D., L.H.D.
- Elizabeth Faulkner Baker, 1919-1952, *Professor Emeritus of Economics*
Ph.D.
- Hugh Wiley Puckett, 1916-1953, *Professor Emeritus of German*
Ph.D.
- Helen R. Downes, 1933-1960, *Professor Emeritus of Chemistry*
Ph.D.
- Amelia A. de del Rio, 1930-1962, *Professor Emeritus of Spanish*
Ph.D.
- Millicent C. McIntosh, 1947-1962, *President Emeritus*
Ph.D., LL.D., Litt.D., L.H.D.
- Margaret Holland, 1926-1964, *Professor Emeritus of Physical Education*
M.A.

- Thomas P. Peardon, 1923-1965, *Professor Emeritus of Political Science*
Ph.D.
- W. Cabell Greet, 1926-1966, *McIntosh Professor Emeritus of English*
Ph.D., Litt.D.
- Esther Greene, 1944-1967, *Librarian Emeritus*
A.B., B.S.
- Lucyle Hook, 1948-1967, *Professor Emeritus of English*
Ph.D.
- Marion Lawrence, 1929-1967, *Professor Emeritus of Art History*
Ph.D.
- René Albrecht-Carrié, 1945-1969, *Professor Emeritus of History*
Ph.D.
- Eugenio Florit, 1945-1969, *Professor Emeritus of Spanish*
D. en D.
- Virginia D. Harrington, 1942-1969; *Professor Emeritus of History*
Ph.D.
- Jean T. Palmer, 1946-1969, *General Secretary Emeritus*
A.B.
- Henry A. Boorse, 1937-1970, *Professor Emeritus of Physics and Dean Emeritus of the Faculty*
Ph.D.
- Julius S. Held, 1936-1970, *Professor Emeritus of Art History*
Ph.D.
- Mirra Komarovsky, 1934-1970, *Professor Emeritus of Sociology*
Ph.D.
- Marjory J. Nelson, 1948-1971, *College Physician Emeritus*
M.D.
- Emma Dietz Stecher, 1945-1971, *Professor Emeritus of Chemistry*
Ph.D.

**Other Officers
of Instruction**

- Alvin L. Atkins, 1966, *Adjunct Associate Professor of Psychology*
A.B., Yale; M.A., Ph.D., Columbia
- Victoria F. Barr, 1967, *Instructor (Part-time) in Art History*
B.F.A., Yale
- Vassilios Christides, 1971, *Lecturer in Modern Greek*
M.A., U.C.L.A.; Ph.D., Princeton
- J. Earl Clemens, 1969, *Associate in History*
A.B., M.A., Michigan
- Lanny Fields, 1968, *Adjunct Assistant Professor of Psychology*
A.B., Ph.D., Columbia

- Adelbert H. Jenkins, 1969, *Adjunct Assistant Professor of Psychology*
A.B., Antioch; M.A., Ph.D., Michigan
- Bona Kostka, 1962-63; 1969, *Instructor (Part-time) in Medieval and Renaissance Studies*
Dott. in Lett., Rome
- Cynthia B. Lloyd, 1970, *Instructor (Part-time) in Economics*
A.B., Bryn Mawr; M.A., Columbia
- Anya Luchow, 1970, *Instructor (Part-time) in Russian*
A.B., Barnard
- John L. Mish, *Adjunct Professor of Religion*
Ph.D., Berlin
- Brian O'Doherty, 1970, *Lecturer in Art History*
- Dennis B. Parichy, 1969, *Technical Director, Minor Latham Playhouse*
B.S., Northwestern U.
- Albert W. Sadler, *Adjunct Professor of Religion*
A.B., Hobart; M.A., Ph.D., Columbia-Union Theological Seminary
- James A. Schmid, 1970, *Instructor (Part-time) in Biology*
A.B., Columbia; M.A., Chicago
- Janet Soares, 1968, *Instructor (Part-time) in Physical Education*
B.S., Juilliard
- Beverly M. Spatt, 1971, *Associate in Geography*
A.B., Pembroke; M.A., New York University
- Quandra P. Stadler, 1970, *Associate in English*
A.B., Antioch
- Sandra Stingle, 1967, *Instructor (Part-time) in Psychology*
A.B., Barnard
- Adja Yunkers, 1970, *Visiting Artist*

**Officers of
Administration**

Martha Peterson, Ph.D., L.H.D., LL.D., *President of Barnard College and Dean in the University*

LeRoy C. Breunig, Ph.D., *Dean of the Faculty and Professor of French*

Barbara S. Schmitter, M.A., *Dean of Studies and Associate Professor of Psychology*

Forrest L. Abbott, Ed.D., *Treasurer and Controller*

**Office of the
President**

Henry A. Boorse, Ph.D., *Assistant to the President and Professor Emeritus of Physics*

Jane Moorman, Ph.D., *Assistant to the President*

Dorothy H. Hefferline, M.A., *Administrative Assistant*

Novella I. Landau, *Secretary to the President*

**Office of the Dean
of the Faculty**

R. Christine Royer, M.A., *Associate Dean of the Faculty*
Virginia Shaw, A.B., *Director of Institutional Studies and Secretary to the Faculty*

Julie Marsteller, A.B., *College Archivist*

Mary Ringwald, *Faculty Secretary*

**Office of the Dean
of Studies**

Marjorie H. Dobkin, A.B., *Associate Dean of Studies*
Grace King, Ph.D., *Adviser to the Class of 1973 and Pre-Medical Adviser*

Lydia H. Lenaghan, Ph.D., *Adviser to the Class of 1974*

Hermine Riffaterre, Ph.D., *Adviser to the Class of 1974*

Bruce Feld, M.A., *Adviser to the Class of 1975*

Lynda Snead, M.A., *Adviser to the Class of 1975*

Marcia Welles, M.A., *Adviser to the Class of 1975*

To be announced, *Adviser to the Class of 1975*

Zoya Trifunovich, M.A., *Foreign Student Adviser*

Susan Costello, *Administrative Assistant*

**Office of the
Treasurer and
Controller**

Helen Vanides, *Executive Assistant*

**Office of
Admissions**

Helen M. McCann, A.B., *Director*

Margaret Dykes Dayton, M.A., *Associate Director*

Anne G. Garonzik, A.B., *Assistant Director*

**Office of the
Associate Alumnae**

Nora L. Percival, A.B., *Director*

**Office of Buildings
and Grounds**

John G. Kiessling, *Manager of Maintenance and Operations*

William Goodman, *Assistant Manager of Building Maintenance*

Margaret V. O'Shea, *Supervisor of Building Services*

Alfonso Leverock, *Assistant Supervisor of Building Services*

Office of the Bursar

Frances A. Barry, M.S., *Bursar*

Violet Parness, *Executive Assistant*

Office of College Activities	Elizabeth Y. Meyers, M.A., <i>Director</i>
Development Office	Barbara V. Hertz, A.B., <i>Director</i> Eleanor Mintz, A.B., <i>Director, Barnard Fund</i> Janice C. Pries, A.B., <i>Director of Research</i> Jeannette Stukes, <i>Records Administrator</i>
Financial Aid	Kenneth R. Ostberg, M.A., <i>Director</i>
Food Services	Eleanor R. Smith, B.S., <i>Director</i> Audrey Bell, <i>Assistant Director</i> Margaret Lyons, <i>Dietician</i>
Health Service	To be announced, <i>College Physician</i> Harriet R. Mogul, M.D., <i>Assistant College Physician</i> Zira De Fries, M.D., <i>College Psychiatrist</i> Barbara Gibbs, <i>Consulting Psychiatrist</i> Lilo R. Grothe, Ph.D., <i>Psychiatric Counselor</i> Denise Saks, J.S.D., M.A., M.S., <i>Psychiatric Counselor</i> Lela Anderson, R.N., <i>Nurse</i> Beatrice G. Tucker, R.N., <i>Nurse</i>
Language Laboratory	Ersi L. Breunig, <i>Director</i>
Library	Robert B. Palmer, M.A., M.S., <i>Librarian</i> Natalie Sonevytsky, M.S., <i>Reference Librarian</i> Elizabeth M. Corbett, M.S., <i>Circulation Librarian</i> Patricia K. Ballou, A.B., B.S., <i>Technical Services Librarian</i> Mary J. Kelly, M.S., <i>Order Librarian</i> Lynne M. Brody, M.S., <i>Reserve Librarian</i> Stephanie M. Krstulovic, <i>Technical Services Librarian</i>
Office Services	Winifred Price, <i>Director</i> Myrtle Tate, <i>Assistant Director</i>
Office of Placement and Career Planning	Jane S. Gould, M.A., <i>Director</i> Hilary F. Knatz, M.A., <i>Administrative Assistant</i>
Office of Public Relations	Sarah W. Johnson, M.A., <i>Director</i> Cathy Ann Primus, A.B., <i>Assistant Director</i> Karen Kushner, <i>Editorial Assistant</i>
Office of Purchasing	Mary Bane, <i>Manager of Purchasing</i>
Office of the Registrar	Mary Helen McMahon, M.A., <i>Registrar</i> Doris Campbell, A.B., <i>Assistant Registrar</i>
Office of Residence	Blanche E. Lawton, M.A., <i>Director</i> To be announced, <i>Resident Director, Residence Halls</i> Joanne Colozzi, <i>Resident Director, Plimpton Hall</i>

James Weikart, *Resident Director, 600, 616, 620*

John Finn, *Coordinator of Residence Services*

Monica Smith, *Administrative Assistant*

*Office of Safety
and Security*

Raymond E. Boylan, *Director*



3 An Introduction to the College

Barnard's History

Barnard College was among the pioneers in the late nineteenth century crusade to make higher education available to young women. The history of its achievement is an integral part of the history of Columbia University.

The University had its origin in a royal charter, granted in 1754 by George II, creating King's College. Its operations were interrupted during the Revolutionary War when its buildings were requisitioned by the Continental Armies, but it was reopened in 1784 as Columbia College and, in 1896, was designated a university.

Barnard College grew out of the idea, first proposed by Columbia's tenth president, Frederick A. P. Barnard, that young women be admitted to Columbia. Initially ignored, the idea was developed by President Barnard until it led to the creation of a "Collegiate Course for Women." Under the new plan highly qualified women were authorized to follow a prescribed course leading ultimately to a Columbia degree, but no provision was made for where and how they were to pursue their studies. Destined to fail, this arrangement was abandoned six years later when Columbia's trustees agreed to the establishment of an affiliated college for women. A provisional charter and the promise of funds were secured, and Barnard College was named in honor of its earliest and most persistent advocate.

In October 1889, the first Barnard class met in a rented brown-stone house at 343 Madison Avenue with fourteen students enrolled in the School of the Arts, twenty-two "specials" enrolled in science because they lacked the entrance requirements in Greek, and a faculty of six.

Nine years later Barnard moved to its present site on Morning-side Heights, and in 1900 was incorporated in the educational system of Columbia University with provisions which at that time were unique among women's colleges: it was to be governed by its own Trustees, Faculty, and Dean, and was responsible for its own endowment and plant, while sharing the instruction, the library, and the degrees of a university.

Barnard Today

In contrast to the pioneer days, Barnard today has a teaching staff of almost 200 men and women: outstanding scholars whose primary concern is the education of the undergraduate students at the College, and many of whom bring an added vitality to their teaching from their professional activities outside the classroom. From the original fourteen matriculated students, enrollment has increased to about 1,950; since 1893

Columbia has awarded its degree to 16,218 Barnard students. The original pledges of support have expanded to current endowment funds of \$18,604,594.

The Curriculum

Within the University Barnard's corporate identity is maintained as an independent college for women. The curriculum offers the undergraduate opportunity to study the liberal arts and sciences. Specific requirements for the degree are outlined on pages 36-39. Assistance in planning her individual course of study is given by the student's class adviser, a member of the teaching staff who supervises the work of the freshman and the sophomore years. At the end of this period, each student chooses her major field. During the junior and senior years her major adviser guides advanced study in the area of concentration and other phases of the college work. Twenty-five departments offer major programs and seven interdepartmental majors are also available. Classes vary in size. Language classes are small as are other courses in which student participation is important. Introductory courses and classes taught primarily by the lecture method are often divided into small groups for conference and discussion. Laboratory work in the sciences is conducted with the most modern laboratory equipment. There are opportunities for independent work and students may also be invited to participate in the research projects of members of the Faculty. Some undergraduate courses are held with Columbia College, and several departments are linked closely with the University, sharing faculty, students and facilities. Graduate courses in the University are also open to qualified upperclassmen under certain conditions.

Special Concerns About the Education of Women

In keeping with its tradition, Barnard is concerned with the problems and potentialities of women today. Work is going forward in many areas: the building of a special library and archives, career counseling, political and social activities on behalf of women, and curricular offerings. Such offerings are available in the departments of Economics, English, French, German, History, Oriental Studies, and Sociology. An interdepartmental course is also being given by members of the departments of Anthropology, Biological Sciences, Psychology, and Sociology.

The Campus

The campus occupies four acres of urban property along Broadway between 116th and 120th Streets. At the southern end of the campus, three residence buildings, Brooks, Hewitt, and Helen Reid Halls, face Altschul Court, a landscaped quadrangle.

Barnard Hall is just north of the open courtyard and contains seminar rooms, classrooms, and faculty offices, as well as a gym, a swimming pool, and dance studios. The College Parlor on the third floor is used for meetings and small social events.

Adele Lehman Hall is a modern five-story building containing the Wollman Library, faculty offices and classrooms. The library has over 119,000 volumes in an open shelf arrangement on three floors. This collection of carefully selected books is designed to cover curriculum requirements as well as to provide opportunities for independent work in many fields. A collection of approximately 3,500 music and spoken records, a large selection of periodicals and journals, photographs and art reproductions housed in a separate room supplement and strengthen the book collection. There are ample listening facilities for records and an audio-visual studio and control room for the recording of tapes and the use of other equipment. The reading areas contain a number of individual study carrels, many of which overlook a lawn surrounded by small trees and shrubs. Barnard students also have access to the University's Butler Library of almost four million volumes, one million manuscripts and fifty thousand periodical listings. The other twenty-nine libraries of the University are also available for additional research.

Helen Goodhart Altschul Hall and the Millicent McIntosh Center, which were dedicated jointly in November 1969, face each other across an open plaza. The fourteen stories of Altschul Hall are devoted primarily to the sciences but also house the Herbert H. Lehman Auditorium on the first floor, and a language laboratory on the fourth. The laboratory, which contains 60 booths, is used by both Barnard and Columbia language students. Headquarters for student activities, a snack bar and a lounge are located in the McIntosh Center. Student mailboxes are there as well as music practice rooms; recreation and television rooms, bowling alleys, an art exhibit area, and the Jean T. Palmer Room, furnished with a conference table and chairs.

Milbank Hall occupies the northern extreme of the campus and houses administrative and faculty offices; classrooms; a greenhouse; and the Minor Latham Playhouse, a small well-equipped modern theatre. The French, German, and Spanish Departments maintain social and reading rooms in Milbank Hall.

Columbia University is directly across Broadway from the Barnard campus. Off campus, but in the immediate neighbor-

hood, Barnard maintains other residence halls, including: 600, 616 and 620 West 116th Street, three apartment buildings owned by the College and containing suites accommodating five to six girls each; and Plimpton Hall, completed in 1968, which houses 280 students in apartment style units. Each Plimpton resident lives in a single room in a five-room suite with a central kitchen and bath.

Student Life

Barnard's student population is cosmopolitan in nature. While one third of the students have families within commuting distance, the others come from nearly every state and some twenty-five foreign countries.

The students represent diversity in background and training; and a mingling of economic, regional, and cultural strains finds expression in the life of the campus.

Every Barnard student is a member of the Undergraduate Association, which sponsors extracurricular activities reflecting current interests: the college newspaper, the literary magazine, dramatic groups, political and religious organizations, and pre-professional and departmental clubs. Cooperation between Barnard and Columbia groups is common. Many activities, such as the University's chorus and its orchestra, its radio station, and a community service program enlist members from both campuses.

During the past four years the structure of Barnard's student government has undergone fundamental revision, culminating in the development of twelve tripartite college committees. Students, faculty, and administrators serving on these committees share responsibility for policy decisions in the areas of curriculum, housing, financial aid, orientation, and the library.

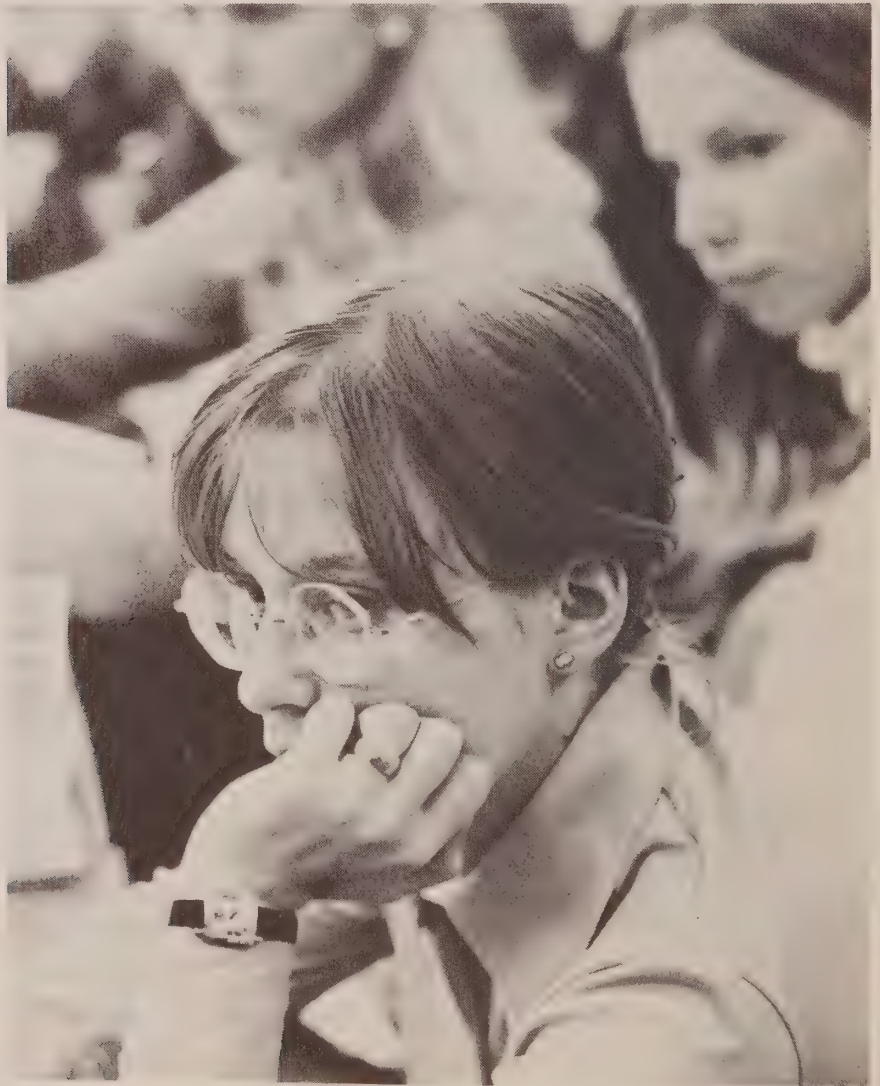
The Honor Code, instituted at Barnard in 1912, governs all aspects of academic life and is administered by the student Academic Council. A Judicial Council of undergraduates, faculty and staff, recommends disciplinary action for non-academic offenses.

Religious organizations and activities with headquarters on the Columbia campus at Earl Hall encompass nearly every faith and are open to all students. The Thursday Noon Meeting at Barnard provides a weekly forum for discussion of a wide range of contemporary issues. Student artists with a diversity of talents and interests collaborate to produce the free-wheeling Spring Festival.

The Recreation and Athletic Association sponsors many campus activities, including tennis, basketball, water ballet, fencing, and modern dance, as well as some athletic events with other colleges. In 1933 the alumnae purchased a lodge on twenty acres of wooded land in Westchester County. The camp, named Holly House, provides an accessible site for country weekends throughout the year.

**New York
is Barnard's
Laboratory**

More than fifty years ago, Nicholas Murray Butler, one of Columbia's great presidents, observed, "New York is intensely cosmopolitan and contact with its life for a short time during the impressionableness of youth is in itself a liberal education." The city is an extension of the campus, utilized by every department to narrow the gap between learning and living. Barnard is a university college in an international city, and today the curriculum affirms and encourages precise and graphic use of its vast metropolitan laboratory.



Since entering classes are limited in size, admission to Barnard College is on a selective basis. The Committee on Admissions endeavors to choose candidates who seem most receptive to the discipline and challenge of a liberal arts education. Each applicant is considered in the light of her past performance, the qualities of mind and spirit which insure her growth as an individual, and her ability to contribute to the growth of those with whom she will associate in college and throughout her adult life.

The College believes it is also desirable for the student body to represent a stimulating variety of schools, both public and independent, from all parts of the United States and from abroad.

Students who can visit the college for an interview should plan to do so in the fall of their senior year, or in the late spring of the junior year; others may arrange interviews with Barnard Area Representatives whose names are listed on pages 229-232.

**Admission
to the
Freshman
Class**

Application for admission to the freshman class should be made before January 1 of the year of entrance. It is advisable, however, to apply by the end of the junior year or the fall of the senior year. Application forms may be obtained by writing to the Director of Admissions.

A nonrefundable fee of \$15 must accompany each application. Checks or money orders must be in U.S. funds drawn on a U.S. bank, and made payable to Barnard College.

Students are admitted to the freshman class in September. They must be at least fifteen years of age, and should present the following credentials:

Evidence of good character, which is obtained from confidential reports from the applicant's secondary school principal and teachers and, if possible, through a personal interview at the College.

Evidence of sound health, to be submitted as soon as the applicant has been accepted, on forms provided by the Office of Admissions.

Evidence of intellectual ability and achievement, which is reported by the secondary school to the College, and is also demonstrated by the required College Entrance Examination Board tests.

Candidates for admission must offer a college preparatory program from an approved secondary school or should have equivalent education representing a four-year course of study.

Academic preparation for admission should be based on the requirements for the A.B., or liberal arts, degree. A recommended program would comprise four years of work in English; three years in mathematics; four years in a foreign language (ancient or modern); one year in a science with laboratory; and one year in history. An introduction to a second foreign language is generally useful. The remainder of the program would include additional work in the aforementioned subjects with the possible addition of music and art.

The Committee on Admissions is willing to consider the applications of students whose preparation may vary from the usual pattern but whose records give evidence of genuine intellectual ability and interest.

Every candidate for admission to the freshman class is required to take the College Entrance Examination Board Scholastic Aptitude Test and three Scholastic Achievement Tests. The latter must be taken in (1) English composition, (2) a foreign language, and (3) history, science, or mathematics. The Scholastic Aptitude Test must be taken in November, December or January of the senior year in high school. Achievement Tests in continuing subjects (English, foreign languages, mathematics, etc.) must be taken in December or January of the senior year. Candidates must arrange to take the foreign language reading test in January of the senior year, or the listening-reading test in May. Achievement Tests in one-year subjects or those completed in the junior year may be taken in May of the junior year. It is the student's responsibility to direct the College Entrance Examination Board to send official test scores to the Office of Admissions.

**Early
Decision
Plan**

In order to alleviate some of the problems arising from multiple applications, Barnard, with the other members of the Seven College Conference, has agreed to take action in the fall of the senior year on applications of well-qualified students who have made their choice of a college by that time. Students wishing to apply under this plan should signify their intention when they request application papers. They must be certified by their school as having filed only one application.

Single-choice candidates for Barnard admission should send their application to the Office of Admissions, Barnard College, New York, N.Y. 10027, before October 15 of the senior year. Applications must be accompanied by the \$15 application fee.

Late in November Barnard will send to single-choice applicants letters of admission or rejection, or, in doubtful cases, postponement of decision until the customary date in the spring. Each applicant will be considered on the basis of (1) the recommendation of her school principal or counselor, (2) her three-year record at school, and (3) the results of the required College Board Scholastic Aptitude Test and the three Scholastic Achievement Tests taken in her junior year in English composition, a foreign language, and history, science, or mathematics.

The successful candidate will be expected to complete her senior year satisfactorily and to submit a record of that year's work. She will not be asked to repeat any College Board examinations. She must agree to pay to Barnard in January a deposit of \$100, if she is to be a commuting student, and \$150 if she is to be a resident student, to hold her place in the freshman class.

The candidate on whose application decision has been postponed will be given full and careful consideration in the spring. She will be asked to submit a record of her school work for the first half of her senior year, with the results of senior College Board Scholastic Aptitude and Achievement Tests as additional evidence.

Candidates on whose credentials favorable action is not taken may file applications at other colleges after receiving their notification from Barnard.

**The College
Entrance
Examination
Board Tests**

The College Entrance Examination Board will administer the following series of tests in 1971-72:

Saturday, November 6, 1971 (Scholastic Aptitude Test only)

Saturday, December 4, 1971 (No Foreign Language Achievement Examination)

Saturday, January 8, 1972 (Scholastic Aptitude and Achievement Tests)

Saturday, March 4, 1972 (No Foreign Language Achievement Examination)

Saturday, April 15, 1972 (Scholastic Aptitude Test only)

Saturday, May 6, 1972 (Achievement Tests only)

Saturday, July 8, 1972 (No Foreign Language Achievement Examination)

Candidates should write directly to the College Examination Board, Box 592, Princeton, New Jersey 08540, for the Bulletin of Information containing descriptions of the Scholastic Aptitude and Achievement Tests, directions for filing applications, and lists of examination centers. When requesting the applica-

tion forms, candidates should state the month in which they wish to take the tests.

Residents of California, Oregon, Washington, Idaho, Montana, Wyoming, Utah, Colorado, Nevada, Arizona, New Mexico, Alaska, Hawaii, Australia, Mexico, and the Pacific Islands should write to the Pacific Coast Office of the Board, Berkeley, California 94701.

To facilitate the arrangements for the conduct of the tests, all applications should be filed as early as possible. The normal closing date for the receipt of applications in Princeton, New Jersey, or Berkeley, California, for candidates outside the United States, the Canal Zone, Canada, Mexico, and the West Indies is two months before the date of the examination; for all other candidates the closing date is approximately five weeks before the date of the examination. A penalty fee will be charged for applications received later than the normal closing date.

No applications received in Princeton or Berkeley later than two weeks before the examination date will be considered. Candidates may not register for the tests at the examination centers. Each application should be accompanied by the appropriate examination fee. Please refer to the College Board Handbook for information about deadlines and fees.

The Board will report the results of the tests to the institutions indicated on the candidates' applications. The colleges, in turn, will notify the candidates of the action taken on their applications for admission.

**Admission
with
Advanced
Placement**

Students who have completed advanced work in secondary school and who present satisfactory scores on the Advanced Placement Tests of the College Entrance Examination Board, may be placed in courses above the level of the freshmen year, at the discretion of the departments concerned.

Students with scores of 4 or better on the College Entrance Examination Board Advanced Placement Tests may be given credit toward the thirty-two course requirement for the degree, provided the Barnard departments concerned so recommend. Credit for advanced placement work will in no case be in excess of four semester courses. A petition for credit must be submitted to the Committee on Programs and Academic Standing.

**Admission of
Transfer
Students**

Transfer students are admitted in September and in February. Candidates should present a strong record of not less than one year's work at an accredited college, or foreign university, or

institution of equivalent grade. In general, credit is given for courses taken at another college which are similar in content to those offered at Barnard. (See also page 38.)

The student should submit her formal application and the following credentials: her secondary school record, a recommendation from her principal and her college dean or class adviser, a complete and official transcript of her college work and a copy of the college catalogue in which the courses she has taken are clearly marked, and the results of the College Entrance Examination Board tests. A candidate will be asked to take the College Entrance Examination Board Scholastic Aptitude Test if she has not already done so. No definite credit for junior college work can be assigned until the student has had an opportunity to establish a satisfactory record at Barnard.

Application for acceptance with advanced standing should be submitted before May 15 for admission in September and before December 1 for admission in February. Acceptance is subject to receipt of a statement of honorable dismissal, which is a certificate of good character from an authorized college representative, a satisfactory final transcript, and the required health reports. If these credentials are not received, the student must postpone registration until after classes begin. There is an additional \$15 fee for lateness.

Seniors who are degree candidates at other colleges may apply for permission to complete their requirements at Barnard. Each applicant must present satisfactory college records and letters of approval from her Dean and her major adviser, and agree to comply with all Barnard regulations concerning attendance and course examinations.

Admission of Foreign Students

The College is interested in the applications of qualified foreign students. Candidates are expected to take the Scholastic Aptitude Test given by the College Entrance Examination Board, if they can arrange to do so. (This test examines the student's ability to understand word relationships and to comprehend what is read, and the ability to understand and solve mathematical problems.) Freshmen candidates should also present the Achievement examination results. Requests for an examination center overseas should reach the Board, Box 592, Princeton, New Jersey 08540, two months prior to the dates listed on the previous pages.

Knowledge of the English language is essential for admission. It is recommended that applicants take the TOEFL, Test of

English as a Foreign Language. Information about registration should be obtained by writing to the TOEFL Program, Educational Testing Service, Princeton, New Jersey 08540. If the results of this examination cannot be presented, students whose native language is not English are required to take the American University Language Center Test. Arrangements for it should be made through the United States Consulate.

During the week of registration (September or February) all foreign students must take English placement tests in writing, aural comprehension, and speech. Failure to pass these tests will necessitate remedial courses in English at Columbia University, either without academic credit or with limited credit, depending on the level of the course and the grade obtained. No credit is assigned for other academic courses until the remedial work is successfully completed.

Limited financial aid is granted to qualified applicants. Admitted students should direct an inquiry to the nearest American Embassy concerning the possibility of securing a Fulbright travel grant. Employment during the first year here is not permitted. Official approval must be obtained from the Immigration and Naturalization Service for paid work after the first year.

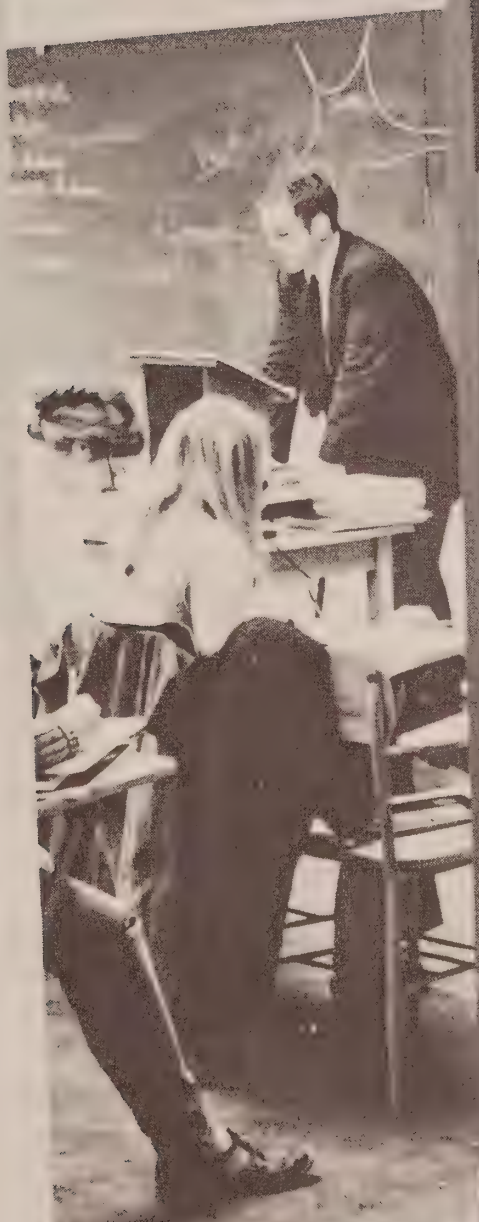
Definite credit for study at foreign institutions is not assigned until a full year of satisfactory work has been completed at Barnard. It is hoped that the foreign student will return to her home country and utilize her education after completion of studies in the United States.

For information concerning the Medical Expense Policy which is obligatory for foreign students whose homes are outside the United States, please see pages 204-205.

Candidates are urged to communicate with the Director of Admissions well in advance of the date they wish to enter, so that the College may be of assistance to them in making their plans.

Readmission

A student who has withdrawn from the College, or who has been on leave of absence, is not automatically readmitted. She should make application for readmission to the Director of Admissions. A nonrefundable fee of \$15 must accompany the application of any student who has not been granted a leave of absence by the Dean of Studies. Completed applications as well as all required credentials (e.g. medical reports, transcripts, recommendations) are due by December 1 for the Spring Term, and by May 15 for the Autumn Term.



**Academic
Requirements
for the
A.B. Degree**

Requirements for the Bachelor of Arts degree are flexible and have been planned to serve as a framework for the study of various fields of human thought. They should provide a foundation in the liberal arts and sciences on which to base more intensive work in specific fields. All requirements must be completed within six years of the student's matriculation as a freshman at Barnard or elsewhere. These requirements call for the completion of 32 semester courses and include the following:

I. Basic

English A. (Foreign students please refer to page 33.)

One science (two semesters), with laboratory.

Foreign language. Competence in a modern foreign language, or in Greek or Latin. This requirement may be fulfilled either by passing an examination with a sufficiently high score, or by satisfactory completion of a designated course. (See the statement under the appropriate language department for further details.)

II. General

Completion of six semester courses outside the major department, selected from the following six categories (no more than two courses in any single category may satisfy the requirement):

1. Art history; music
2. Literature in the language in which it was originally written
3. Philosophy; religion
4. History
5. Anthropology; economics; geography; government; linguistics; sociology
6. Mathematics

III. Major

A major field is to be selected before the end of the sophomore year, consisting of no fewer than 8 courses of prescribed work. Each department requires, as specified, a senior essay or a major examination or some equivalent demonstration of proficiency in the discipline. A major may be chosen in any one field, or in such combinations as are approved by the Committee on Programs and Academic Standing.

*IV. Physical
Education*

Required of all students through the junior year: completion of six semesters required for students admitted as freshmen; four semesters for students admitted as sophomores; two semesters for students admitted as juniors.

**Satisfaction
of Requirements
by Examination**

At the discretion of the department involved, a student may take special examinations which, if successfully passed, offer exemption from basic, general, and major requirements. Special examinations may also be taken to demonstrate preparation for admission to advanced courses. Further details concerning such

examinations are available in the Office of the Registrar and the departmental offices. The purpose of these examinations is to allow the student a wider intellectual experience than would otherwise be possible during the four-year college course.

**Senior
Scholar
Program**

The Senior Scholar Program allows especially qualified students to undertake a single project, with exemptions from all course and major requirements, in their senior year. The program is intended to meet the needs of those few students who come to the senior year with a record of unusual accomplishment in a specific area of scholarship, or in the practicing arts. A student with such qualifications should prepare a detailed proposal in conference with a faculty adviser who has agreed to direct her work. Application must be made to the department concerned and then to the Committee on Instruction, by midsemester of the second term of the junior year. At the conclusion of the junior year, the student should have completed all basic and general requirements for the degree.

**Experimental
College**

The Experimental College was begun in 1969 by students who believed that learning could best occur in a group, housed together and devoted to the study and practice of educational change. Any student may enroll in Experimental College 1-2 (see page 61), but resident members have the opportunity to develop a flexible program that may be both an accompaniment and a contrast to the existing college structure. A normal course of study for members of the Experimental College includes Experimental College 1-2, two semesters of independent study under the direction of a member of the faculty, and such other courses as a student elects to satisfy the degree requirements of the college.

Residence

Students are expected to be registered for full-time work for four years. Requests for acceleration will be granted sparingly and only for reasons of weight. Normally, only 8 courses per year will count for credit, but students may elect to take 5 courses in any term. All count equally in determining the academic average. Permission to complete the work for the degree while registered *in absentia* may be granted under certain conditions on application to the Committee on Programs and Academic Standing.

**Grading
System**

Academic standing and eligibility for graduation are determined by the quantity and quality of the student's work. Quality of work is indicated by the following grades: A or A—, excellent;

B+, B, B-, good; C+, C, C-, fair; D, poor; F, failure, and P, passed without a specific grade. Work of unusual merit in the major field is awarded the grade Passed with Distinction.

A course is marked Incomplete (Inc.) if the student has filed with the Registrar the written permission of the instructor for the postponement of required work; Absent (Abs.) designates an absence from the final examination; Deferred (Def.) indicates a grade deferred because of illness during the examination; the entry Y-C signifies that the grade on completion of the second term will apply to the first term as well; WD/F signifies withdrawal from a course without formal notification to the Registrar.

An upperclassman may elect pass-fail grades in courses not necessary to satisfy the requirement in the major, providing twenty-eight of the thirty-two courses required for graduation are taken for letter grade credit. A freshman may elect a pass-fail grade in the Spring Term only.

In the computation of grade averages, marks for courses are awarded points on the following scale: A = 4, B = 3, C = 2, D = 1, F = 0. For every plus or minus unit an adjustment of +0.3 or -0.3 is made. In order to be recommended for the degree a student must maintain a cumulative average of 2.00 (C) for her entire course and for her senior year specifically. At the end of each term all records are examined. Normally only those students with cumulative averages of 2.00 or above are permitted to remain in college. Continuance in college of students whose work falls below this average depends upon promise of future development and is determined by the Committee on Programs and Academic Standing.

Courses which receive marks of D may not be counted toward the minimum number of courses required in the major field, although they are included in the average for the major.

**Requirements
for Transfer
Students**

Before registration the transfer student receives an estimate of the credit she may expect for work she has done at her previous college. She plans her program with her adviser using the estimate as a guide to the required work to be completed.

All transfer students (except foreign students) are considered to have satisfied the requirements of English A. Those who subsequently appear to have deficiencies in English will be advised to take further work.

Transfer students may be exempted from the Foreign Language Requirement on the basis of their College Entrance Examination scores alone, or on the basis of the combination of those scores and the number of semesters of the language studied at another college. Those who are not exempted will be placed in appropriate courses leading to fulfillment of the requirement.

A maximum of 8 courses toward the Barnard degree is allowed for one year's work elsewhere. Four semesters and at least 16 courses must be taken at Barnard, including a minimum of 6 courses in the major field.

Transfer students are subject to the regulations governing summer study as set forth on page 43.



Registration Class advisers are appointed from the teaching staff and may be consulted by students with individual questions or for information about the various services and activities of the college. Freshmen and sophomores plan their programs in conference with their class advisers and obtain their signatures on all official forms and documents. Major advisers are appointed in each department to aid juniors and seniors in planning their general programs and in completing the requirements of their particular fields.

Registration takes place each term according to a schedule mailed to all students before the beginning of the term. Classes cannot be attended until all fees are paid and registration is complete. Failure to register at the assigned time will entail the payment of an additional fee.

No student may be registered simultaneously in any other school or college without the consent of the Dean of Studies.

Language Placement Examinations Fulfillment of the foreign language requirement or placement in a language course may be achieved on the basis of College Entrance Examination Board scores or previous college courses or both. Examinations are given before registration for students who have studied foreign languages but who cannot be given placement in the above ways. Any student who wishes to take a placement examination may do so, and she must accept the placement she receives.

Academic Discipline Continuance in the College, receipt of academic credit, and conferring of the degree are subject to the disciplinary powers of the College. Any registration may be cancelled at such time and upon such grounds as the College shall in its sole discretion determine.

Attendance Students are expected to attend classes regularly. Those who are absent from classes must expect the quality of their work to be affected. Frequent or prolonged absences from the College or from classes without a compelling reason such as illness will cause a student to forfeit the right to make up work or take final examinations.

All absences due to illness must be reported on forms available in the Office of the College Physician. Illness is considered an excuse for absence only if the student's statement is filed immediately upon her return to college.

Barnard is a nondenominational college. Students who are prevented by conscientious scruples from complying with

academic requirements on days set apart for religious observance should discuss this problem with their religious counselor.

Withdrawal A student not subject to discipline for infraction of College rules may withdraw from the College during the term by giving notice of intention to withdraw in writing on forms obtained from the Office of the Dean of Studies. If the student is under twenty-one the forms must be signed by a parent or guardian. Failure to submit the proper notification on the part of a student who withdraws while College is in session may result in a report of WD/F for the term's work.

Leaves of Absence Requests for leaves of absence should be made on forms obtained from the Office of the Dean of Studies. A student in good standing may be granted a leave of absence for one term or two consecutive terms only, for personal reasons, e.g., health, marriage, financial necessity, or for study abroad. Completed applications for leave of absence must be received prior to the first term to which it applies: by July 1 for the Autumn Term; by December 1 for the Spring Term.

Classification of Students Students are classified as follows:

- Freshmen — those who have completed fewer than 6 courses
- Sophomores — those who have completed 6 courses
- Juniors — those who have completed 14 courses
- Seniors — those who have completed 24 courses
- Unclassified — those who have not yet been assigned definite credit on transfer
- Nonmatriculated—those who are not candidates for the degree

No matriculated student may change her status to that of nonmatriculated student.

Changes of Program Students may change the programs for which they have registered through Friday, October 15, Autumn Term, and Friday, February 24, Spring Term. After that date, new courses may not be added, and other changes are subject to the following regulations:

Section Changes. Sections may not be changed except at the written request of the instructor.

Dropping Courses. A course may be dropped with the written approval of the class adviser (for freshmen and sophomores), the major adviser (for juniors and seniors), or the College Physician. After a fixed date (see College Calendar, pages 7-8), no course may be dropped except with the approval of

the Dean of Studies, and then only for reasons of serious personal emergency.

Audited Courses. No change from a noncredit to a credit basis may be made after the final date for adding a course. Permission of the instructor is required to audit a Barnard course.

**Columbia
University
Courses**

Under certain conditions courses in other divisions of the University may be elected when an equivalent course is not offered at Barnard.

Graduate School of Arts and Sciences: With the approval of the major adviser, graduate courses in the major field are open without additional fees to qualified upperclassmen who need this work to achieve their objectives in their major fields. For graduate courses outside the major field, the student must pay the additional fees unless waiver of the fees is recommended by the major adviser and granted by the Committee on Programs and Academic Standing. Approval of the Chairman of the Department concerned is also required.

Seniors with high academic standing may apply for permission to count up to 24 points of graduate work in the major field toward the graduate degree.¹

Those who wish to register for graduate courses to count toward a higher degree must comply with the following conditions:

The approval of the chairman of the Barnard and Columbia departments, the Graduate Admissions Office, and the Committee on Programs and Academic Standing must be obtained in advance and filed in the Registrar's Office.

The student must be in her senior year.

The program for the term must not be in excess of 4 courses.

The courses for graduate credit must be in addition to the 32 courses required for the A.B. degree.

Courses in Columbia College and the School of General Studies not listed in this announcement may be elected in certain cases. The Registrar will send to each student with her registration material regulations for enrolling in such courses.

Teachers College: Certain courses may be taken by qualified seniors with the consent of the Dean of Studies and the Registrar of Teachers College. Except for seniors in the Barnard education program, fees for these courses are not included in the regular tuition, but are added to the Barnard bill.¹

¹ Financial aid is not applicable to fees for such work.

Summer Study A student will normally be expected to spend four years completing the work for the degree; however, with prior approval of acceleration by the Committee on Programs and Academic Standing or permission to make up a course dropped or failed during the term, up to 4 courses may be taken in summer session for credit. Summer study may be used for the satisfaction of prerequisites or for the fulfillment of requirements.

The entire summer program must be approved in advance in writing by the class or the major adviser, and then by the chairman of the appropriate Barnard department. Programs must be approved and submitted to the Registrar before the last day of the Spring Term. Official reports of grades must be filed with the Registrar not later than October 15. Grades of Absent or Incomplete will not be honored after that date.

Not more than two one-semester courses may be elected in any one summer session.

Courses of less than six weeks' duration are credited only in exceptional cases.

No course with a grade lower than C will be credited toward the degree.

Grades will not be included in the Barnard average.

Final Examinations Final examinations are scheduled at the end of each semester. For the academic year 1971-72 they will be held January 24 through February 3, and May 22 through June 1.

Deferred examinations, given in September and March, are open only to those students whose work is satisfactory and who were absent from the regular examinations for reasons of illness or family emergency. Exceptions to these conditions can be made only by petition to the Committee on Programs and Academic Standing before the regular examination period begins.

Absence for reasons of health on the day of an examination should be reported to the Office of the College Physician.

Examinations missed in January are to be taken the following March or, in cases of prolonged illness, in September of the same year. Those missed in May are to be taken in September of the same year. If a student absents herself without a valid excuse from a final or deferred examination, she will receive a grade of zero for that examination. A fee of \$5, payable in advance, is charged for each deferred examination. A senior who has missed an examination at the end of her last term may

apply for a special examination for which the fee is \$10, payable in advance.

The following plan shows the pattern normally used in making up the final examination schedule; it is necessarily subject to change. In the periods left open, groups 10 through 18 are arranged so as to avoid conflicts for Barnard students taking Columbia examinations scheduled at these times.

First Week

A.M.	MON.	TUES.	WED.	THURS.	FRI.
Group		8	1	6	3
Class		TuTh 11	MWF 9	TuTh 9	MWF 11
Hour					
P.M.	MON.	TUES.	WED.	THURS.	FRI.
Group	5				
Class	MWF 2				
Hour					

Second Week

A.M.	MON.	TUES.	WED.	THURS.	FRI.
Group	2	7			
Class	MWF 10	TuTh 10			
Hour					
P.M.	MON.	TUES.	WED.	THURS.	FRI.
Group	4	9			
Class	MWF 1	TuTh 2			
Hour					

Examinations During the Term

Instructors are not required to give make-up examinations to those absent from previously announced tests. An instructor who is willing to give a make-up test is authorized to do so if the student has submitted a report of illness approved by the College Physician or acceptable evidence of other extenuating circumstances.

Transcripts

Transcripts are sent to all students in March and to all students and parents in July. Additional unofficial copies of transcripts may be obtained by students for the usual fee. Official copies of transcripts bearing the seal of the College and the signature of the Registrar of the College can be sent only to academic institutions, business organizations, and government offices, at the request of the student.

The charge is \$1 for each transcript. For multiple copies ordered at one time, effective September 1, 1971, the charge is \$1 each for the first three copies and 50¢ for each additional copy.

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- Degrees** Students are recommended by the Faculty of Barnard College to the Trustees of Columbia University for the degree of Bachelor of Arts. Degrees are granted in June, October, and February. A statement of intention to complete the work for the degree on any one of these dates must be filed with the Registrar at the announced time. (See College Calendar pages 7 and 8.) Graduation ceremonies are held in June.
- Honors** The Faculty awards honors to students who complete work for the degree with distinction (*cum laude*, 3.25), with high distinction (*magna cum laude*, 3.50), and with highest distinction (*summa cum laude*, 3.75). Students whose records include work done at another institution will be eligible for honors if both the over-all and the Barnard averages meet this requirement. Departmental honors are awarded to graduates who are recommended by their departments for distinguished work in their major fields.
- Dean's List** A Dean's List, which contains the names of students who deserve special mention for superior scholarship, is compiled at the end of each academic year. A program of no fewer than 3 courses each term and a year's average of 3.40, based on at least 6 grades other than P, are required. Announcement of the list is made the following October.
- Phi Beta Kappa** The Barnard section of the Columbia University chapter of Phi Beta Kappa was founded in 1901. Election to the national honor society is a recognition of scholarship, and Barnard students of exceptionally high standing are eligible. Questions concerning Phi Beta Kappa should be referred to the Office of the Dean of Studies.
- The Honor System** An integral and pervasive aspect of academic life at Barnard College is the school's Honor System, instituted in 1912. Under it, a student is expected to maintain responsibility for her own conduct and to show consideration for other members of the community in academic matters. Thus examinations are unproctored and the library employs no guarding system. In addition, this code of responsibility for oneself and to the community applies to such areas as the signing of class attendance sheets and the preparation of assignments. Administration of the Honor Code and any infractions of it which may occur are dealt with by the Academic Council, but the success of the Honor System depends on the integrity of each individual Barnard student.

Health The College Physician is responsible for the health of the college community. She is assisted by one part-time physician, a psychiatrist, two psychiatric counselors, and two nurses. Medical examinations at regular intervals are obligatory: December 15 is the final date for seniors for the completion of their examination; May 15 for freshmen. Students will not be permitted to register for the succeeding term until they have had this examination.

All students, residents, nonresidents, and commuters, must immediately report any illness, however minor, to the Medical Office. If resident students wish to have someone other than the College Physician care for them, their parents must address a request to the College Physician and send her the name and address of the doctor before registration.

Housing Traditionally, Barnard has attracted students from all over the world as well as from its own community, New York City, and its suburbs. At present the College has academic facilities for 1950 students, of whom approximately 1100 can be housed in the campus residence halls and the Barnard cooperative apartment residences adjacent to the campus. Additional rooms are assigned by the College in other residences near the campus.

The Director of Residence must know before academic registration each term where every student is living and must have any permission forms required of the student complete and on file. Any student who wishes to change her address at any time after her first registration for a given academic term (even when returning to her legal home) must file with the Director of Residence her new address and necessary permission.

To arrange for off-campus housing, the parent or legal guardian must sign an Off-Campus Housing Permission Card stating that he or she takes full responsibility for the student's health, safety and finances. Permission is official when the card is on file at the College. The College strongly recommends that two or more students live together. Should a student return to her legal home, she must notify the Director of Residence.

Housing Classifications Students are classified as residents, nonresidents, or commuters when they enter Barnard. This classification is based on the distance of a student's home from the College and may change: 1. if the legal residence changes (i.e., the residence of the parent or legal guardian); 2. in case of nonresidents, if they are assigned a room in one of the residences owned and operated by the College; 3. in case of residents, if they move off campus.

<i>Resident</i>	A resident is a student whose legal home is outside the commuting area and who is assigned a room by the Director of Residence in one of the residences owned and operated by the College, or in housing leased by the college.
<i>Nonresident</i>	A nonresident is a student whose legal home is outside the commuting area who is not assigned space in one of the residences owned and operated or leased by the College. The parent or legal guardian must submit a written request for off-campus housing (any housing arrangements not within a Barnard owned and operated residence) to the Director of Residence by September 1 for the Fall Term and by January 17 for the Spring Term. When the student accepts a room in college housing, her housing classification changes to that of resident.
<i>Commuter</i>	A commuter is a student whose legal home falls within the geographic area prescribed by the College as the commuting area. Commuters are eligible for College-assigned housing when space is available. Assignments are on a semester basis. Commuters are not reclassified as residents. Priority is based on academic class and distance. If a commuter is given permission for off-campus housing, her name will be removed from the waiting list for College-assigned rooms unless she specifically requests that it should remain.
College-Owned and Operated Residences	<p>Assignments are made by the Director of Residence according to the following priority: resident upperclassmen; incoming resident freshmen; non-residents who wish to change their status to resident; re-admitted resident students; non-resident transfer students; commuters who wish resident accommodation on a temporary, semester basis without a change of housing status.</p> <ol style="list-style-type: none"> 1. Brooks, Hewitt and Reid Halls, supervised dormitories at 3001 Broadway, are operated as one complex with space for approximately 510 students. Rooms are primarily singles and doubles. Freshmen are usually assigned to double rooms. All students living in these halls are required to subscribe to the College meal plan. Rooms are \$675 singles; \$625 doubles or other multiple occupancy per academic year. Board \$525 per academic year; fifteen meals per week (Monday through Friday). 2. 616 West 116th Street, an apartment-style supervised residence directly across the street from the other halls, provides housing for 212 upperclassmen in suites of single and double rooms accommodating five or six girls. Each suite has a kitchen and bath. Rooms are \$725 singles; \$675 doubles per academic year. Subscription to the food plan is optional.

3. **620 West 116th Street.** Barnard College has limited space available in this recently purchased apartment building. There is no resident supervision. Seniors have first priority for this space. Rooms are \$725 singles per academic year. Subscription to the food plan is optional.

4. **600 West 116th Street.** Barnard has recently purchased this apartment building. There are limited spaces available to Barnard students. The building will operate on the same principle as 620 West 116 Street. The rooms are \$725 for singles and \$675 for doubles, per academic year. Subscription to the food plan is optional.

5. **Plimpton Hall,** an apartment-style supervised residence on Amsterdam Avenue and West 121 Street, a short walk from the main campus, provides housing for 280 upperclassmen in suites of five single rooms. Each suite has a kitchen and bath. Rooms are \$765 per academic year. Subscription to the food plan is optional.

The College is instituting co-educational housing with Columbia College for the academic year 1971-72 in 616 West 116th Street.

College-Reserved Space

The Fairholm, 503 West 121st Street, is a residence owned and operated by Teachers College of Columbia University. The building may house graduate men and women from Teachers College on separate floors. Students have their own keys. Assignments are made by the College to students who have parental permission. Barnard contracts for single rooms in self-contained suites with kitchens and baths. Rooms presently range from \$484-\$630 per year. There will be an increase which has not been determined.

Married Students

Students who plan to marry during the academic year and continue in college are asked to notify the Dean of Studies. Married students, as a rule, will not be allowed to remain in the college residences. They will be subject to the financial obligations which pertain to any student who withdraws from the residence halls or from the College during the term.

Financial Aid for Room and Board

Barnard students whose academic records and financial situation make them eligible for financial aid from the College to help cover living expenses will have the cost of food and room considered in their award if they reside in College housing.

Office of Placement and Career Planning

The Office of Placement and Career Planning assists students and alumnae in planning for and finding full-time, part-time and summer positions. Through personal interviews and the use of career information and resources, the staff helps students

and alumnae to make vocational choices appropriate to both immediate needs and long range goals.

The Office, which is open throughout the year, contacts hundreds of potential employers for jobs in many different fields. In addition the staff does research on those fields of special interest to Barnard students and alumnae. The Office arranges meetings with professionals to discuss specific career opportunities and conferences on general vocational concerns. It also maintains a library of vocational material and a collection of catalogues from graduate and professional schools. Each year several thousand requests for credentials for graduate school are sent out for seniors and alumnae.

About 50% of Barnard students do some paid work during the school year. The Office of Placement and Career Planning lists part-time jobs, for on and off-campus, ranging from manuscript typing to dog walking, from ushering to tutoring. The Office supervises the Barnard Babysitting Service, which receives over five thousand calls for babysitters each year. Students' average term-time earnings range from about \$250 to \$550. Freshmen are referred to part-time jobs for no more than 10 hours per week their first semester.

Approximately 75% of Barnard students work during the summer. Average earnings for full-time summer jobs range from \$600 to \$900. The staff helps students find summer jobs, provides information on special programs and internships and contacts many other potential summer employers throughout the country. In addition the Office places students on the Federal Work-Study Program in jobs during the school year and the summer. During the summer Work-Study students have had jobs in as many as 42 organizations in 14 different states, ranging from California to New York, from Minnesota to Louisiana.

The College reserves the right to withdraw or modify any course or to change the instructors as may be necessary.

Course descriptions will be found in the following pages. More information may be obtained from the chairman of the departments at registration periods and during the academic year.

Room assignments are printed on separate sheets and distributed during registration.

Autumn Term courses are marked by odd numbers, Spring Term courses by even numbers, year courses by consecutive odd and even numbers. An even number followed by **x** indicates a course given in the Autumn Term. An odd number followed by **y** indicates a course given in the Spring Term.

Indivisible courses which run throughout the year are marked with a hyphen between the numerals (Art History 1-2). No credit is given for work in an indivisible course dropped at midyear without the written consent of the instructor and the departmental chairman and the approval of the Committee on Programs and Academic Standing.

Divisible courses which run throughout the year are marked with a comma between the numerals (Geography 1, 2). The first half of such courses may be taken separately. Admission to the second half without completion of the first half is granted only if written permission of the instructor is obtained.

Courses are arranged in examination groups to avoid conflicts on the examination schedule. The groups are indicated by boldface numerals following the course title (English Composition [**0**]). Group **0** includes courses which ordinarily do not have set examinations. No student may elect two courses in the same examination group, other than Group **0**, without a written statement from one or the other instructor that a conflict examination will be given. This statement must be filed by the student in the Registrar's Office. A complete list of courses by examination groups is given on pages 236-238.

The following alphabetical prefixes designate the division of the University for whose students the course is primarily offered or indicate joint courses.

C — Columbia College

F — School of General Studies

G — Graduate Faculties

R — Program in the Arts

V — Joint undergraduate course with Columbia College and/or the School of General Studies

W — Other inter-faculty course

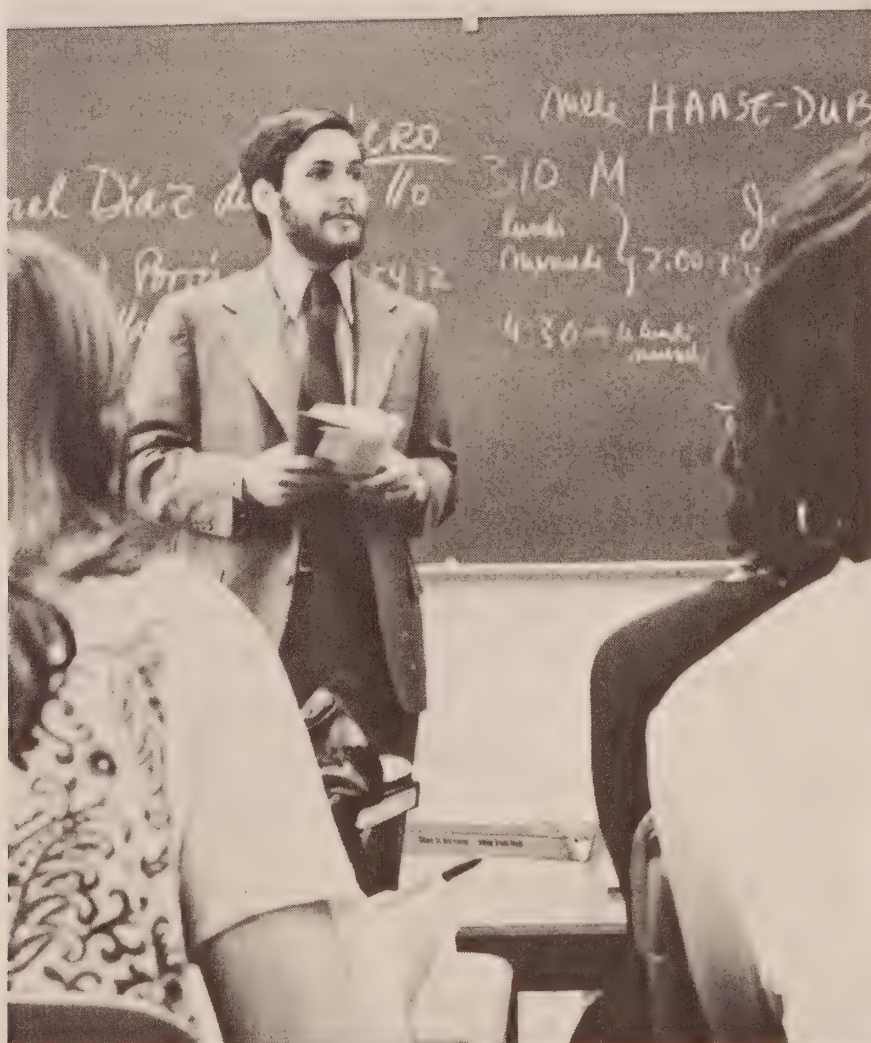
The level of the course in general is as follows:

1000-3999 Undergraduate

4000-5999 Graduate, open to qualified undergraduates

6000-8999 Graduate, normally not open to undergraduates

The symbol x follows the number of a course given in the Autumn Term; the symbol y follows the number of a Spring Term course.



I. Foreign Area Studies

This program is supervised by the Committee on Foreign Area Studies:

<i>Professor of Chinese and Japanese</i>	John Meskill, Chairman
<i>Professor of English</i>	Barry Ulanov
<i>Professor of History</i>	Chilton Williamson
<i>Associate Professor of Anthropology</i>	Abraham Rosman
<i>Associate Professor of French</i>	Serge Gavronsky
<i>Instructor in Spanish</i>	Randolph D. Pope

The purpose of Foreign Area Studies is to provide an introduction to the study of some one foreign region or country of the world. The work is divided into three elements: language, a scholarly discipline, and a diversified approach to a region. The student who wishes to major may choose one of the regions listed below. The courses named under each region include only those most commonly elected. Other courses, or other regions of concentration, may be chosen upon approval of the project by an adviser. Concentrations in African Studies can be arranged in certain departments; for information see advisers in Anthropology, Geography, History, and Political Science. For fuller descriptions of the courses listed, see under the appropriate department.

The senior requirement varies according to the region studied. Majors should consult their advisers for details.

A major in Foreign Area Studies is open to a limited number of qualified students whose applications are approved by the committee in charge. Freshmen and sophomores anticipating such a major should consult their class advisers and the officer in charge by March 1 of the sophomore year.

Asia (Adviser: Mr. Meskill) See Oriental Studies, page 155.

Latin America (Adviser: Mr. Pope)

A major consists of the starred courses and additional courses, the latter chosen to meet the following requirements: (a) one course in Latin American history; and (b) four more courses, of which two should be in one department and above the introductory level, chosen with the help of the adviser.

Anthropology V3029y. The Archaeology of the New World.

Art History V3080x. Pre-Columbian Art.

Economics 24. The Latin American Economy.

Geography C3200y. Economic Geography of Latin America.

History W4779x-W4780y. History of Latin American Civilization.
 History G4784y. The History of Modern Brazil.
 History G4787y. Latin American Independence Movements, 1789-1830.

Political Science C3650y. The Latin American Political Experience.
 Spanish 11. Significant Themes of Contemporary Latin American Literature.

*Spanish 14. Spanish-American Culture.

*Spanish 31-32. Spanish-American Literature.

*Spanish C3811x or C3812y. Latin American Seminar.

Russia (Adviser: Mr. Field)

A major consists of the starred courses and additional courses, the latter chosen to meet the following requirements: (a) at least two courses in Russian literature above the language requirement level; (b) four more courses on Russia, chosen with the help of the adviser; (c) three courses chosen from appropriate colloquia and senior seminars in consultation with the adviser; and (d) a reading knowledge of Russian adequate for research in the senior seminar.

Art History G4331x. Russian Art.

Economics G4523y. Economic Organization and Development of the Soviet Union.

Geography W3403y. Economic Geography of the U.S.S.R.

*History 27. Russia from the Time of Troubles to the Era of Reforms.

*History 28. Russia from the Era of Reforms to the Death of Stalin.

History 29. Pre-Petrine Russian Culture.

History 30. Russian Radicalism and Its Antagonists.

History 31. Serfdom in Russia and Slavery in the United States.

History G4379x. Russian and Soviet Scientific Thought.

Political Science 19. Soviet Politics.

Political Science 20. Colloquium on Communism and Revolutionary Change.

Political Science 21. Colloquium on Soviet Foreign Policy.

Russian V3333x, V3334y. Introduction to Russian Literature.

Russian V3454y. Russian Thought in the Nineteenth and Twentieth Centuries.

Russian V3461y. Pushkin.

Russian V3462x. Gogol.

Russian V3463x. Tolstoy.

Russian V3464y. Dostoevsky.

Russian V3465x. Russian Poetry in the Nineteenth and Twentieth Centuries.

Russian V3467y. Twentieth-Century Prose Writers.

Western Europe (Adviser: Mr. Woodbridge)

For the program on England, see British Civilization, page 55. For other Western European countries, a major consists of the starred courses and additional courses, the latter chosen to meet the following requirements: (a) two courses in the literature of one country, in the original language; (b) four more courses on the same country, chosen with the help of the adviser; and (c) two courses of senior seminar, usually in History.

The courses listed below are meant to indicate only the foundations on which a full program may be based. For more information, consult the adviser.

*History 11. Main Currents of the Modern European World: Renaissance to the French Revolution.

*History 12. Main Currents of the Modern European World: Waterloo to Today.
 [Two other history courses may be substituted for 11 and 12 with the approval of the adviser.]
 History 25. The Establishment and Downfall of the French Monarchy: 1515 to 1789.
 History 26. France in Turmoil: 1789 to Today.
 French 23-24. The Culture and Institutions of France.
 French 25-26. French Historical Prose.
 French 21, 22. Masterpieces of Literature from the Middle Ages to the Twentieth Century.
 History W4428y. History of the Hapsburg Monarchy, 1815-1918.
 History G4179y. German National Socialism, 1919-1945.
 German 16. German Romanticism.
 German 11, 12. Main Currents in German Literature and Culture.
 History 13. The Italian Renaissance in the 15th and 16th Centuries.
 History G4170x-G4171y. The History of Modern Italy, 1815-1945.
 Italian V3333x-V3334y. Introduction to Italian Literature.
 Italian V3449x-V3450y. Contemporary Italian Literature.
 Spanish 13. The Culture of Spain.
 History C3813x. The History of Spain.
 Spanish 18. Spanish Literature of the Golden Age.
 Spanish 23y. Nineteenth Century Literature in Spain.
 Spanish 25. Contemporary Spanish Literature, Part I.
 Spanish 26. Contemporary Spanish Literature, Part II.
 Art History 75, 76. European Painting Since the Renaissance.
 *History 91-92. Senior Seminars in European Civilization.

II. American Studies

This program is supervised by the Committee on American Studies:

Professor of History
Professor of
Art History
Professor of History
Instructor in English

Annette K. Baxter, Chairman
 Barbara Novak¹
 Basil Rauch
 Christine Royer

¹ Absent on leave, Autumn Term.

The purpose of the program is to develop understanding of American civilization considered as a whole. The results of specialized study in all fields of learning dealing with American subject matter are assembled for the work of the senior seminar.

A major in American Studies: In order to acquire a broad understanding of American civilization and acquaintance with various methods of studying it, a student who majors in American Studies must take a program, planned in consultation with her major adviser, which includes the following: (a) Two courses selected from among ancient, medieval, or European history in any combination. (b) Two courses in American history. (c) Two courses in social science dealing primarily or

partly with American subject matter. (d) Two courses in humanities dealing primarily or partly with American subject matter. (e) In the junior year American Studies 1-2, and in the senior year American Studies 3-4.

A research essay to be prepared in the senior seminar is required to lieu of the major examination.

1-2. Junior Readings.

[0]

Students will read selected classics and examples of contemporary scholarship in American Studies. The aim of the course is to prepare the student to discuss and write critically on interdisciplinary works. May be entered either semester. Open to non-majors with permission of the instructor. Professor Baxter. Biweekly meetings. Th 3:35-5:15.

3-4. Senior Seminar.

[0]

Individual research on diverse aspects of American civilization, in consultation with the instructors, and presentation of results in the form of the senior essay. Professors Rauch and Baxter. W 4:10-6 and frequent conferences.

III. British Civilization

This program is supervised by the Committee on British Civilization:

Professor of History
Professor of English
Professor of English
Professor of History
Associate Professor
of History

Stephen E. Koss, Chairman
David A. Robertson, Jr.
Eleanor Rosenberg
Chilton Williamson
George Woodbridge

Open to students who are interested in an interdisciplinary approach to learning within a broad general area. Particularly emphasizes historical and literary traditions of British Civilization, but is comprehensive enough to include specialized interests in the fields of imperial and commonwealth studies.

A student who wishes to major in British Civilization must obtain the approval of the chairman of the committee. She should plan, in consultation with her adviser, a program of study which will include: (a) Four half-year courses in history; (b) Four additional half-year courses, of which two must be in English literature; (c) A senior seminar (two terms) in history or English.

Senior requirement: A thesis, the length and standards of which will be set by the committee. Junior majors should consult with their advisers during the Spring Term about placement in pertinent senior seminars.

In 1971-72 a section of English 40, open to students of all classes, will study recent literary treatments of selected British institutions.

IV. Environmental Conservation and Management

This program is organized and administered by a committee of members of the Departments of Biology, Geography and Geology:

<i>Professor of Geography</i>	Leonard Zobler, Chairman
<i>Professor of Biology</i>	Donald D. Ritchie
<i>Professor of Geology</i>	John E. Sanders
<i>Associate Professor of Biology</i>	Patricia L. Dudley
<i>Associate Professor of Biology</i>	David W. Ehrenfeld

The program acquaints the student with a set of issues that are crucial to the survival of mankind and begins the development of the means to cope with them. These issues concern the adequacy of the earth's natural resources to sustain an environment of quality when confronted by the pressures of the current urban-technologic-population explosion. Their combined effects threaten the natural environment with profound and possible irreversible disturbances and question western man's land ethics.

The goals of the program are: (1) to train and equip students with the requisite skills, values, and attitudes to enable them to participate in the work of designing, establishing, and maintaining a viable ecologic habitat for man, and (2) to promote the development of research skills in environmental science. The concept of the ecosystem lends unity to the multi-disciplinary character of environmental studies.

The academic program is designed around the idea that man's ecosystem is the set of interacting relationships among the physical, biological, and cultural forces that govern the human realm. Coherence is provided by core courses followed by in-depth studies along one of several subject matter or managerial tracks. The core courses are: General Biology (Biological Sciences 1-2), Ecology (Biological Sciences 8), Environmental Science (Geography 1, 2), and Conservation Theory (Geography W4014y). In addition, a cluster of conservation courses on field work, readings, lab projects, and internships has been developed. Students may opt to follow a managerial or a scientific program. Model programs are available from the committee. The core plus five advanced electives, one of which shall be a year seminar, satisfy the major requirements. Examples of specialized paths are: biological conservation, environmental and physical

resources, coastal zone, urban and suburban planning, environmental center operation. Details are available from committee members.

41y. Colloquium.

Readings, discussions, reports, and lab or field study of selected aspects of man's relation to the environment. Occasional invited guests. Topics and sections will be announced at the beginning of the semester. Permission to register is required. Committee Members. Hours to be arranged.

46. Environmental Monitoring.

The analysis of the properties of air, water, soils, and waste discharges with special reference to nutrient cycles, and the accumulation of pollutants. Introduction to environmental quality control monitoring principles, instrumentation, and systems. Laboratory work and field trips. Permission to register is required. Committee Members and invited guests. Hours to be arranged.

48. Coastal Zone Management.

Geologic, physical, biologic, and climatic factors in origin and present dynamics of various kinds of coasts, with emphasis on the coasts in the New York area; mankind's use of coastal zones; problems in management; and governmental and private programs. Lectures, readings, discussions, outside speakers, individual research projects leading to a term paper, and at least four field trips. Prerequisite: Geography 1, 2; or Geology W1021x, W1022y; or the equivalent. Professor Sanders. Hours to be arranged.

51, 52. Environmental Projects.

Special study projects in environmental science, field research, internships, and environmental issues of interest to the student. Individual arrangements with a member of the faculty.

[62. Environmental Center Management. Not given in 1971-72.]

69, 70. Seminar.

Reports and discussions of current individual or joint research culminating in the senior essay. Committee Members. Hours to be arranged.

Additional courses in the program offered by Biological Sciences, Geography and Geology. For complete descriptions consult department course listings.

Biological Sciences 4. Natural History of the New York Area.

Biological Sciences 13. Biological Conservation.

Biological Sciences 17. The Biology of Urbanization.

Biological Sciences 18. Biological Management in Cities.

Geography 4. Ecology of Urban Industrial Society.

[Geography 31. Environmental Policy. Not given in 1971-72.]

[Geography 32. Transportation and Land Use. Not given in 1971-72.]

Geography 33. Environmental Planning and Perception.

[Geography W4011x. Pedology and Soil Resources. Not given in 1971-72.]

Geography W4012x. Hydrology and Water Resources.

Geology W4226y. Marine Sedimentology.

Geology W4927x. Introduction to Oceanography.

V. Medieval and Renaissance Studies

Officer in charge: Professor Maristella Lorch¹
Professor Suzanne Wemple (Adviser and Officer in charge, Spring Term.)

Representative for Columbia College: Professor Malcolm Bean
¹ Absent on leave, Spring Term.

This program is supervised by the Committee on Medieval and Renaissance Studies:

<i>Professor of English</i>	Eleanor Rosenberg
<i>Professor of English</i>	Barry Ulanov
<i>Professor of Religion</i>	Theodor Gaster
<i>Associate Professor of French</i>	Tatiana Greene

It will be supported by a University-wide group of consultants.

The purpose of this program is to provide an understanding of Medieval and Renaissance civilizations on the basis of interdisciplinary studies. Students will take related courses in various departments. The programs will be set up *individually* with particular emphasis on one of the disciplines: art history, history (which will combine Medieval and Renaissance Studies), one or more of the literatures, philosophy, romance philology, music, or religion.

Prerequisite for Medieval Studies: History 3. The Early Middle Ages and History 4. The High Middle Ages.

Prerequisite for Renaissance Studies: History 4. The High Middle Ages and History 13. The Italian Renaissance in the Fifteenth and Sixteenth Centuries, or depending on the field of concentration, History 13. The Renaissance, and History 14. The Reformation in Europe in the Sixteenth Century.

Language requirement for Medieval Studies: A reading knowledge of one Romance or Germanic language. In special cases students may petition for another language. Students are expected to acquire a reading knowledge of Medieval Latin before graduation. (See Course 13-14)

Language requirement for Renaissance Studies: A reading knowledge of two languages, preferably Latin and Italian, must be acquired before graduation.

Required courses: A minimum of eight one-semester courses within the general area of Medieval or Renaissance civilization, including courses listed below. Of these, at least three or four must be advanced courses in the field of concentration.

1-2. Introductory Seminar: The Revival and Survival of Rome. [0]

1. For description see Barnard History Department listing under History 1, Professor Wemple.
2. Virgil and Dante. A study of the relation between classical antiquity and the Middle Ages as seen through the influence and presence of Virgil, *persona* and poet, in Dante's *Divine Comedy*. Some attention will also be given to the Renaissance rediscovery of Virgil. The seminar will take the form of a guided reading of Virgil's and Dante's works (in translation). Knowledge of Latin and Italian is desirable but not necessary. Mr. D'Acierno. M 4:10-6.

13-14. Readings in Medieval and Renaissance Texts in the Original. [0]

Medieval and Renaissance Latin authors. Majors must achieve an average of B over two semesters. If not, one or two additional semesters are required. Dr. Kostka. Hours to be arranged.

89-90. Senior Seminar in Medieval and Renaissance Studies. [0]

Students will conduct individual research under joint guidance of the seminar director and a subject specialist. The results of each project will be presented in the form of a senior essay. The seminar director will meet with students in group and individually at regular intervals throughout the year. Dr. Labalme. Hours to be arranged.

These courses are given primarily for students in the program but should places remain open students with the interest and necessary preparation will be admitted upon interview with a member of the committee.

VI. Urban Studies This program is supervised by the Committee on Urban Studies:

Professor of Political Science	Demetrios Caraley, Chairman
Professor of English	Barry Ulanov
Professor of Geography	Leonard Zabler
Professor of History	Basil Rauch
Professor of Sociology	Bernard Barber
Associate Professor of Anthropology	Paula G. Rubel, Secretary
Associate Professor of Economics	Jean Gooch
Associate Professor of Education	Patricia A. Graham

The purpose of urban studies is to develop understanding of the basic processes, institutions, problems, and achievements of city life. A major in urban studies can be taken only in conjunction with a concentration in one of the regular departments. Normally the student should choose as major adviser the member of the committee from the department in which she intends to concentrate.

The major seeks, first, to expose the student through departmental and interdepartmental courses to the concepts and findings of a broad variety of disciplines as they bear on urban subject-matter; and second, to encourage the student to acquire the techniques and habits of scholarly investigation through pursuit of more advanced and concentrated work in some particular urban-related discipline including the writing of a senior thesis.

The requirements for a major in Urban Studies are: (a) One course dealing primarily with urban subject-matter in each of three of the following departments from among those courses indicated: anthropology (V3100x, Urban Societies), economics (W3228x, The Urban Economy), history (W4673x-W4674y, American Urban History), political science (V3313y, American Urban Politics), sociology (33, The Community; 34x, American Minorities; or 48, Black Americans in the Twentieth Century). (b) One course dealing primarily with urban subject-matter from a list approved by the committee in each of two other departments, such as art history, English, geography, psychology, biology, architecture, urban planning. (c) In the junior year Urban Studies 45-46, and in the senior year Urban Studies 64. (d) Satisfactory completion of a concentration in one of the participating departments consisting of not fewer than five courses and the writing in that department of a senior thesis on an urban topic to be approved by the committee.

Note: A list of the specific courses that are approved for fulfilling requirement (b) and of the departments that offer concentrations for urban studies majors is issued periodically by the chairman.

45-46. Junior Colloquium.

[0]

Readings from various disciplines, discussions, and reports focusing on the history and achievements (Autumn Term) and the contemporary problems (Spring Term) of city life.

Autumn Term: Professor McCaughey (in charge) and Miss Howe. Section I W 2:10-4, Section II Th 2:10-4. Spring Term: Mr. Feld (in charge) and Miss Howe. Section I M 3:10-5. Section II Th 2:10-4.

63. Urban Workshop Seminar.**[0]**

Readings, discussions, and reports on the organizational processes of urban institutions and their impact on urban life and conditions. A required part of the course is actual work experience in governmental or private urban agencies. Prerequisite: Senior standing and registration with the urban studies administrative assistant during spring preregistration. Open to non-majors only by permission of the instructor. Miss Howe. Bi-weekly meetings. Tu 2:10-4.

64. Senior Colloquium.**[0]**

Readings and discussions on emerging trends in and prospects of cities. Reports on research being conducted for the senior thesis. Miss Howe. Section I Tu 4:10-6. Section II Th 4:10-6.

VII. Inter-departmental Courses

1. Female and Male: An Interdisciplinary Approach.**[7]**

Evolutionary, genetic, and physiological bases of sex: factors determining sex differences, hormones and behavior, pregnancy and motherhood, sex role strategies in the animal kingdom. Cultural definitions of sex roles in comparative perspective: ranges of variability and the significance of the constants. Psychological development of feminine and masculine behavior and behavioral sex differences in contemporary society. Personality theory and sex roles: Freud and Erikson. Current problems in sexual, familial and economic aspects of female-male relationships and in the status of women. Projections for the future and direction of social policy. Professor Komarovsky (Chairman), Professors Ehrenfeld, Kessler, and Mates. Tu Th 10:35-11.50.

(This is a joint offering of the departments of Anthropology, Biological Sciences, Psychology, and Sociology.)

Experimental College 1-2.

This course will investigate the current conditions of education in America and the assumptions that lie behind them, in an effort to gain perspective on the educational experience of the participants, and possibly to formulate some new directions, particularly in higher education. The search for relevant bibliography will form an integral part of the course. Participants in the course will be asked to state their observations and/or conclusions in writing. Professor Eisenstein. Hours to be arranged.

<i>Professor</i>	Morton Klass ¹
<i>Associate Professors</i>	Abraham Rosman (Chairman; 411A Milbank Hall), Paula G. Rubel, Joan Vincent
<i>Assistant Professors</i>	Bette S. Denitch, Clive S. Kessler
	Officers of Columbia University offering courses open to Barnard students:
<i>Professors</i>	Morton H. Fried, Marvin Harris, Robert F. Murphy, Elliot P. Skinner
<i>Associate Professor</i>	Alexander Alland, Jr.
<i>Assistant Professors</i>	George C. Bond, Alan W. Johnson
<i>Lecturers</i>	Shirley S. Gorenstein, Robert Stigler

¹ Absent on leave, 1971-72.

Anthropology is the study of the biological and cultural development of man, and of the contemporary variety of human societies and their cultures. The student majoring in this field will develop a perspective on man and his ways that is not bound by her own time and culture, and she will find herself drawing upon the literature of such different disciplines as genetics, archaeology, ethnography, linguistics, and the social sciences. While the study of anthropology contributes to a liberal arts education, the student will also receive adequate preparation for further study in graduate school, or for employment in the growing field of applied social change.

Every major is expected to have a general knowledge of all the fields of anthropology and of their interrelationship. Anthropology V1001, V1002 is required of all majors as a prerequisite to advanced work in the subject. All majors are also required to take Social Organization (V3011). Courses in archaeology, linguistics, physical anthropology and ethnographic areas are strongly recommended for majors. In the junior year, a major will take Anthropology 41 and 42, and in her senior year Anthropology 51-52, a seminar for independent research.

Several major museums and libraries in New York offer exceptional opportunities for research. Various summer schools offer opportunities for research in archaeology and ethnography, and under certain circumstances such work may be credited toward the Barnard degree. Students interested in cultural anthropology will be encouraged, whenever possible, to conduct actual research among ethnic groups in the New York area, or, during their summer vacations, in other localities.

In lieu of a major examination, each student in the required senior seminar (51-52) will write a senior essay.

Basic Courses

V1001x and V1001y. Introduction to the Study of Man.
 Man's biological and cultural evolution, as studied by physical anthropologists and archaeologists; introduction to anthropological linguistics. V1001x. Section 1 Professor Fried. M W 9-10:15. Section 2 Professor Harris. M W 11-12:15. Section 3 Professor Rosman. Tu Th 9:10-10:25. V1001y. Professor Alland. Tu Th 4:10-5:25.

V1002x and V1002y. Introduction to Cultural Anthropology.
 Comparative and functional analysis of culture; habitat, technology, and economy; social and political relations; ideology—magic, religion, and science; art, music, and literature; life cycles and personality. V1002x. Professor Murphy. Tu Th 4:10-5:25. V1002y. Section 1 Professor Fried. M W 9-10:15. Section 2 Professor Harris. M W 11-12:15. Section 3 Professor Rosman. Tu Th 9:10-10:25.

[V3201x. **Physical Anthropology.** Not given in 1971-72.]

Linguistics 21, 22. Introduction to Linguistics. [9]
 The nature of language. Characteristics of phonological and grammatical systems and of the lexicon. Evolution of language. Role of linguistics in related disciplines. Modern techniques of linguistic analysis. Linguistics 21 is prerequisite to Linguistics 22. Professor Malone. Tu Th 2:10-3:25.

Intermediate Courses

V1004x. Peoples of Africa.
 Survey of African cultures, with intensive analysis of selected tribes and regions. Professor Bond. M W 9-10:15.

[V1023x. **Peoples of Southeast Asia.** Professor Kessler. Not given in 1971-72.]

[V1024x. **Ethnology of Eurasia.** Professor Denitch. Not given in 1971-72.]

[V1025y. **Ethnology of North American Indians.**
 Professor Rubel. Not given in 1971-72.]

[V1028y. **Peoples of the Middle East.**
 Professor Rosman. Not given in 1971-72.]

V3002y. Political Anthropology.
 The development and comparative study of political structure and government in non-western societies. Professor Bond. M W 4:10-5:25.

V3003y. Problems in Developing Countries.
 Analysis and comparison of political and social problems in developing countries. Professor Denitch. Tu Th 10:35-11:50.

V3004x. Introduction to Archaeology.
 The history, goals, theoretical frameworks, research designs, and techniques and methods for conducting archaeological research. The relationship of archaeology to anthropology, art history, history, and classics is examined. Dr. Gorenstein. M W 1:10-2:25.

V3011x. Social Organization.
 The institutions and organization of social life, particularly in the non-literate societies. Kinship and locality in the structuring of society. Prerequisite: an introductory anthropology course. Professor Vincent. Tu Th 9:10-10:25.

- V3012x. Economic Anthropology.**
Approaches to the study of resource allocation in production, consumption and distribution in tribal and peasant societies, with detailed analysis of illustrative ethnographic materials. Prerequisite: an introductory course, or permission of the instructor. Professor Kessler. Tu Th 3:35-4:50.
- [V3027y. Culture and the Individual.**
Professor Rosman. Not given in 1971-72.]
- V3029y. The Archaeology of the New World.**
A survey of the prehistoric past of native American cultures from the time of the aboriginal settling of the New World by Asian immigrants to that of European contact. Special emphasis upon the rise of the New World civilizations in Mexico and Peru and the processes leading to their development. Prerequisite: a year of introductory anthropology. Dr. Stigler. M W 11-12:15.
- V3032x. The Archaeology of the Old World.**
A survey of the principal areas of cultural development in Europe, Asia, and Africa from the earliest beginning of human culture to the dawn of the first civilization. Prerequisite: a year of introductory anthropology. Dr. Stigler. M W 11-12:15.
- Anthropology-
Linguistics V3034y. Language and Culture.**
Language in its social setting. Social and geographical dialects; covert classificatory systems; ethnotaxonomy; men's and women's speech; baby talk; taboos and euphemisms; secret languages and linguistic play. Prerequisite: a year of introductory linguistics or introductory anthropology. Instructor to be announced. M W 11-12:15.
- W3035x. Peasant Societies of Europe.**
Social and cultural institutions in European rural communities and relationships between peasantries and other sectors of their societies. Professor Denitch. Tu Th 10:35-11:50.
- V3036x. Peasant Societies.**
An introduction to pre-industrial agrarian social systems. Professor Johnson. Tu Th 11-12:15.
- [V3037y. Societies in Transition. Not given in 1971-72.]**
- [V3038x. Ethnic Relations in Changing Societies.**
Professor Vincent. Not given in 1971-72.]
- [V3039y. The Asian Experience in the United States.**
Professor Cohen. Not given in 1971-72.]
- V3042y. Religion in Anthropological Perspective.**
Ideological systems of simple or preindustrial cultures. Relations between religion and other aspects of culture. Prerequisite: an introductory anthropology course. Professor Kessler. Tu Th 3:35-4:50.
- V3048x. Laboratory Techniques in Archaeology.**
Introduction to techniques of description and analysis of ceramic, stone, bone, wood, and metal artifacts. Prerequisite: permission of the instructor. Laboratory fee: \$5. Dr. Gorenstein. Lecture: W 4:10-6. Lab: M 4:10-6.

V3050y. Field Archaeology.

Introduction to archaeological techniques and methods of excavation. Approximately seven field sessions, supplemented by classroom work. Students must pay for their transportation and food when on the trips. Prerequisite: permission of the instructor. Dr. Gorenstein. S 9-12.

V3100x. Urban Societies.

Evolution of cities. A cross-cultural view of kinds of urban formations. Examinations within an anthropological context of various aspects of urban life. Prerequisite: an introductory anthropology course or permission of the instructor. Professor Rubel. Tu Th 10:35-11:50.

W3200y. Colloquium on Methods of Anthropological Research.

Analysis and application of various methods of anthropological research, including, among others, fieldwork procedures, the cross-cultural method, and approaches to model-building in anthropology. Prerequisite: an introductory anthropology course and permission of the instructor. Professor Rubel. W 10-12.

[V3310y. Culture, Causality and Individual Freedom.

Professor Harris. Not given in 1971-72]

Interdepartmental Course 1. Female and Male: An Interdisciplinary Approach. [7]

Professors Komarovsky, Ehrenfeld, Kessler, and Mates. May not be counted toward major. See page 61.

For Majors Only**41. History of Anthropological Theory. [0]**

Intellectual developments contributing to the formalization of anthropology as a discipline. The works of Montesquieu, Comte, Maine, Durkheim, and Marx will be considered, along with the theoretical writings of such anthropologists as Tylor, Morgan, Boas, Malinowski and Radcliffe-Brown. Required of all majors in their junior year. Professor Denitch. Tu Th 2:10-3:25.

42. Junior Colloquium on Current Anthropological Theory. [0]

Intensive analysis of selected contemporary theoretical approaches and issues in anthropology. Required of all majors in their junior year. Prerequisite: Anthropology 41. Professors Vincent, Rubel, and Kessler. Meeting times of the three sections to be arranged.

V3500y. Colloquium: Problems in Structuralism.

Reading and research in anthropological theories of structuralism. Review of works of Claude Lévi-Strauss, Edmund Leach and others in relation to relevant work in linguistics, psychology, sociology and philosophy. Prerequisite: permission of the instructor. Professor Murphy. M 3:10-5.

V3700x. Colloquium: Anthropological Research Problems in Complex Societies.

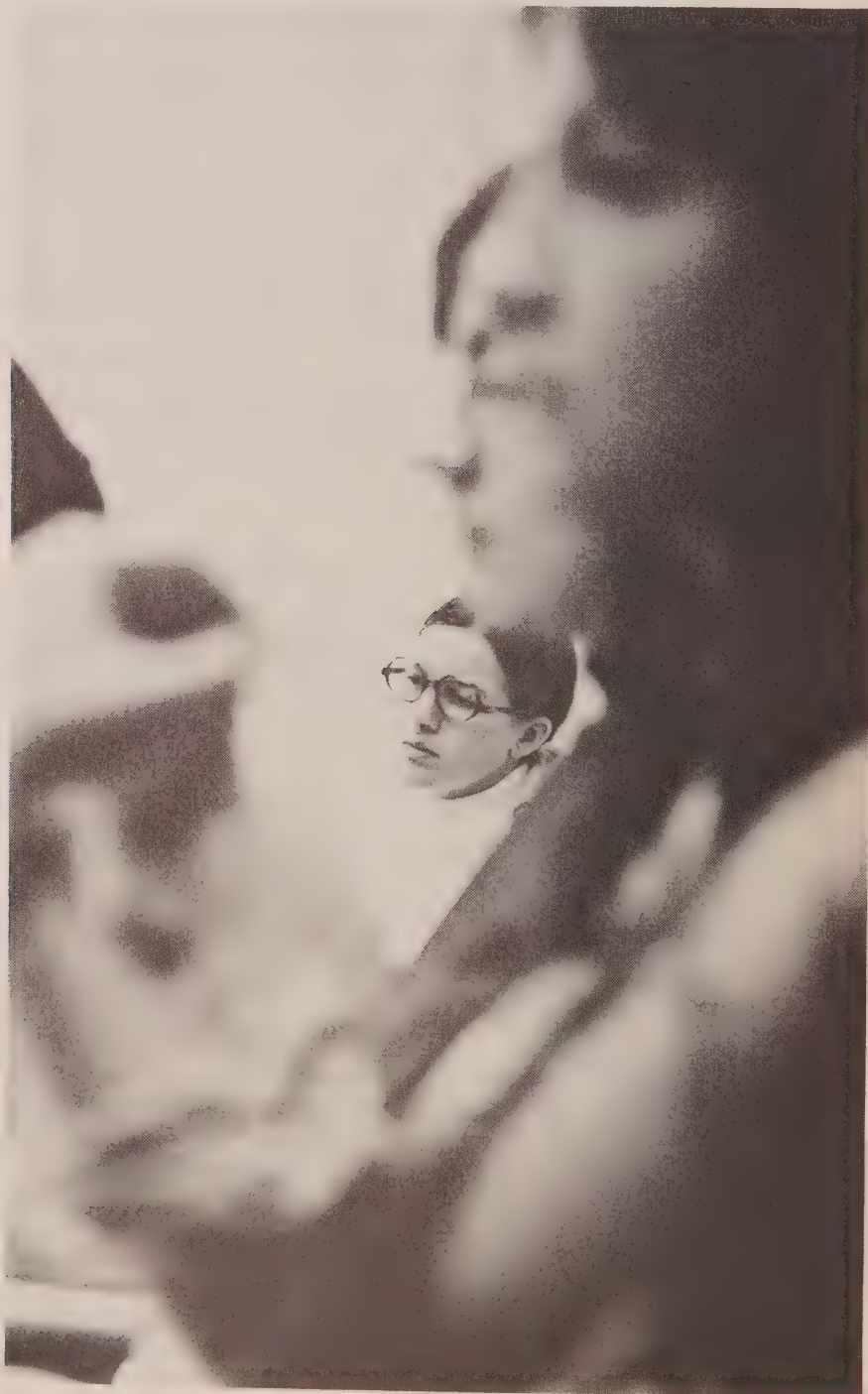
Study of the local community and its relationship to regional and national societies. Discussion of plural societies, minority and ethnic groups in a cross cultural setting. Cases will be selected from Africa, Latin America, Asia, Europe, and North America. Professor Johnson. W 7-9.

51-52. Anthropology Senior Seminar.**[0]**

Discussions and conferences on the researching and writing of the senior essay. Sec. 1, Professor Kessler. Sec. 2, Professor Rosman. Sec. 3, Professor Rubel. Sec. 4, Professor Vincent. Sec. 5, Professor Denitch. Sec. 6, Professor All sections meet M 2:10-4.

Graduate Courses

Certain graduate courses given in the University are open to qualified majors with the consent of the department and the major adviser. These courses are described in the Bulletin of the Graduate School of Arts and Sciences.



<i>Professor</i>	Barbara Novak ¹ (Chairman; 301C Barnard Hall)
<i>Associate Professor</i>	Dorothea Nyberg ²
<i>Visiting Lecturer</i>	Brian O'Doherty
<i>Instructors</i>	Jane Rosenthal, Victoria Barr
<i>Visiting Artist</i>	Adja Yunkers
	Officers of Columbia University giving instruction in Barnard College:
<i>Professor</i>	Richard Brilliant
<i>Assistant Professors</i>	Ann Farkas, Ellwood C. Parry
<i>Instructor</i>	Eugene Santomaso
	Officers of Columbia University offering courses open to Barnard students:
<i>Professors</i>	George R. Collins, Howard McP. Davis, Alfred Frazer, Howard Hibbard
<i>Associate Professors</i>	James H. Beck, Dustin Rice, Allen Staley
<i>Assistant Professors</i>	Alessandra Comini, Wayne Dynes, Ellwood C. Parry III
<i>Instructors</i>	Roberta Berstein, Esther Pasztory, Cornelius Chang
<i>Adjunct Associate</i>	
<i>Professor</i>	Eugene Raskin (<i>Architecture</i>)
<i>Associate</i>	Rosemarie Bletter

¹ Absent on leave, Autumn Term.

² Absent on leave, Spring Term.

Art is a unique form of human experience. A study of its history will often provide a surprisingly vivid insight into the intellectual currents, the religious doctrines and practices, and the social institutions of the past. The student will see to what extent the unfolding of art is determined by conditions existing outside it, and by the impetus given it by the great creative personalities. She will in consequence gain a deepened understanding of the art of our own time and an ability, often fully appreciated only after she has left college, to enjoy intelligently the great accumulation of art in museums all over the world.

Courses in the department of Art History are designed to take advantage of the resources of New York, one of the world's great centers of art. A limited number of studio courses are also offered at Barnard; in addition, students are encouraged to take any course for which they qualify in the Department of Painting and Sculpture, School of the Arts of Columbia University. See page 73, for regulations governing these courses. Studio courses do not count towards the major.

Students who want to major in Art History must take at least eight courses in the department. They should select a full-time member of the department as their adviser, preferably during

their sophomore year and not later than the beginning of their junior year. They should plan their academic program in consultation with this adviser. The department strongly suggests that majors take Course 1-2, and thereafter they must take at least one advanced course in ancient, medieval, renaissance, baroque and modern art, so as to be able to appreciate the variety of artistic expression in different countries and periods. At least four courses in the major should be Barnard courses. Students may register their major as art history with emphasis on architecture. Address inquiries regarding an architectural emphasis to Professor Nyberg; address inquiries regarding an art history major to Professor Novak.

Seniors in Art History are required to write a senior essay, the topic to be chosen in consultation with the appropriate officer of instruction no later than the beginning of the senior year. The essay must be turned in before the spring recess. Seniors must take either one seminar and one semester of individual research directed towards the essay or two seminars, in which case they may submit one seminar paper, expanded, as their senior essay.

Students planning to do graduate work should obtain a reading knowledge of at least two of the foreign languages in which the major contributions to the history of art have been made. (Most graduate schools require a reading knowledge of French and German; the department strongly recommends taking German while at Barnard.)

1-2. Introduction to the History of Art. [4]

A study of the art historian's method and a historical survey of Western architecture, sculpture, and painting. Emphasis will be given to the interpretation of form and content and the correlation of the visual arts with their respective cultural environments. Autumn Term: Greek and classical art, medieval art. Spring Term: Renaissance to modern art. Mrs. Rosenthal. M W 1:10-2:25.

V3080x. Pre-Columbian Art.

A survey of the pre-Hispanic art of Mesoamerica, Central America, and the Andean region, from the earliest times to the Spanish Conquest. Mrs. Pasztory. Tu Th 2:40-3:55.

V3056y. Art of Africa, Oceania, and North America.

A survey of traditional tribal art styles, with emphasis on function, iconography, and historical relationships. Mrs. Pasztory. Tu Th 2:40-3:55.

45. Greek Art and Architecture. [9]

An examination of the principal monuments and themes of Greek art in sculpture, painting, architecture, and city planning from the

Mycenaeans to the Roman conquest. Registration is limited to fifty students. Professor Brilliant. Tu Th 2:10-3:25.

V3250y. Roman Art.

The architecture, sculpture, and painting of ancient Rome from the second century B.C. to the end of the Empire in the West. Professor Frazer. Tu Th 2:10-3:25.

48. Ancient Near Eastern Art.

[9]

Ancient art as cultural history: a survey of the archaeological remains of the early civilizations of western Asia (Mesopotamia, Iran, Anatolia, Syria) from the beginnings of cities to the fall of the Persian Empire. Professor Farkas. Tu Th 2:10-3:25.

51, 52. Medieval Art.

[13]

Autumn Term: Christian art from its beginnings in the late antique world in Mediterranean countries through the early Christian and Byzantine periods, with emphasis on mosaics and illuminated manuscripts, followed by the Celtic and Carolingian styles of western Europe. Spring Term: Romanesque sculpture and architecture of Italy and France, and Gothic architecture, sculpture, and painting, ending with the introduction of the Italian Renaissance into France. 51 is prerequisite to 52. Mrs. Rosenthal. Tu Th 3:35-4:50. Visits to the Metropolitan Museum of Art, the Pierpont Morgan Library, and the Cloisters.

[53. **Christian Iconography.** Not given in 1971-72.]

[54. **Byzantine Art.** Not given in 1971-72.]

V3140y. Imagery and Tradition in Western Art.

The innovation and diffusion of some leading themes in western art from ancient Greece to the present and their relation to other manifestations of culture. Among the topics to be considered are: epic and heroic cycles, political propaganda, icons and iconoclasm, Neo-Platonic and emblematic imagery, nature mysticism, the found object, and the artistic process as subject. Professor Dynes. M W 11-12:15.

61. European Architecture from the Renaissance through the Rococo Style.

[13]

The developments of Renaissance, Baroque, and Rococo architecture in Italy, France, Germany, and England, from the fifteenth to mid-eighteenth century. Among the architects to be studied will be Brunelleschi, Bramante, Michelangelo, Delorme, Cortona, Borromini, François Mansart, Hardouin-Mansart, Inigo Jones, Wren, Neumann, and Boffrand. Professor Nyberg. Tu Th 3:35-4:50.

V3420x. Italian Sculpture during the Renaissance. (formerly A. H. 63)

A survey of developments from the thirteenth to the sixteenth century with special attention given to the art of Nicola Pisano, Giovanni Pisano, Donatello, Quercia, and Michelangelo. Professor Beck. M W 2:10-3:25.

[64. **European Sculpture, Baroque to Modern.**

Professor Nyberg. Not given in 1971-72.]

C3633x. Italian Renaissance Painting (Part I).

A study of painting in Italy from the revival of painting in the late thirteenth century to the early sixteenth century. Emphasis is on the Early Renaissance and on a close analysis of the works of Giotto,

Masaccio, and Piero della Francesca. The High Renaissance is discussed less fully with stress on Leonardo da Vinci and Michelangelo and their role in the continuity of tradition. Professor Davis. Tu Th 11-12:15.

[C3107y. **Italian Painting of the Sixteenth Century.** Not given in 1971-72.]

C3688y. **Northern European Painting.**

Renaissance humanism and realism in the tradition of satiric imagery and the emergence of the Baroque, particularly in Flanders and Holland, with emphasis on Jan van Eyck, Rogier van der Weyden, Bosch, Bruegel, and Rembrandt. Professor Davis. Tu Th 11-12:15.

[70. **European and American Architecture from the Eighteenth**

Century to the Present. Professor Nyberg. Not given in 1971-72.]

75, 76. **European Painting since the Renaissance.**

[7]

Autumn Term: Baroque and Rococo. Painting in Italy, France, England, Flanders, Holland, and Spain from 1600 to the middle of the eighteenth century with emphasis on Caravaggio, the Carracci, Poussin, Rubens, Rembrandt, Velasquez, Watteau, Hogarth, and Tiepolo. Spring Term: Neoclassicism, Romanticism, Realism, Impressionism, and Post-Impressionism. Painting from the late eighteenth century to 1900. Emphasis will be on the developments in France, from David to Cezanne and Seurat, but with attention to Goya, Constable, and Turner as well. Instructor to be announced. Tu Th 10:35-11:50.

V3500x. **Seventeenth Century Art.**

Painting and sculpture in Western Europe. The Baroque style in relation to its cultural background, with emphasis on Bernini, Borromini, Rubens, Velasquez, Rembrandt, and Poussin. Professor Hibbard. Tu Th 2:10-3:25.

[C3677. **Museum Studies: Rembrandt and Vermeer.**

Mr. Walsh. Not given in 1971-72.]

[C3748. **European Painting in the Eighteenth Century.**

Not given in 1971-72.]

[77. **American Art from Colonial Times to the Armory Show.**

Professor Novak. Not given in 1971-72.]

[C3681. **American Art in the Twentieth Century.**

Professor Ingalls. Not given in 1971-72.]

[C3812. **Photography and the Arts.** Professor Parry. Not given in 1971-72.]

C3833x. **Modern Architecture.**

Tendencies in twentieth-century architecture and city planning as related to other cultural developments. Origins of the modern movement in the stylistic and technological developments of the nineteenth century and major contemporary contributions. Mr. Santomasso. M W F 2:10.

V3662y. **Cities and Planning.**

Characteristic forms of cities since ancient times. Analysis of the purpose and meaning of forms of preplanning that have been suggested, especially since the Renaissance. Professor Collins. M W 12-1:15.

Planning C3050x. Introduction to Urban Planning.

Definition of urban planning and its objectives. Major historical contributions to contemporary planning. Changes in planning approaches. Aspects of planning: land use, economic, transportation, social, and administrative. Implementation: planning and the political process. Staff. Tu Th 1:10.

Architecture The Architect in Society.

C3150x. A review of the practice of architecture from ancient times to the present. The impact of communal living on the design of structure for organized society. Present practices and future prospects. Professor Raskin. M W 1:10, and third hour to be arranged.

[83. Masterpieces of Art in New York Museums.

Not given in 1971-72.]

84. (English 84). The Vernacular in the American Arts of Design**[13]**

The conflict between the "cultivated" and "vernacular" styles. The development of an American aesthetic in technology, architecture, fine arts, literature, and other arts. Professor Kouwenhoven. Tu 3:35-5:25.

88. Introduction to Painting and Sculpture of the Twentieth Century.**[5]**

A summary of the principal stylistic developments of the period in question through presentation and discussion of selected artists and their work. Emphasis will be placed on the movements of Fauvism and Expressionism, Cubism, Dada, and Surrealism, as well as on post-war developments in Europe and America. Professor Novak. M W 2:30-4.

[94. Arts of India. Not given in 1971-72.]**V3201x. Arts of China. (formerly A. H. 91)**

A survey of Chinese art from the Neolithic to the last dynastic period of Ch'ing, with emphasis on bronzes, Buddhist art, and great landscape painting of the Sung and later periods. Attention also to the arts of Central Asia and India as they affect the arts of China. Mr. Chang. Tu Th 4:10-5:25.

V3203y. Arts of Japan. (formerly A. H. 92)

A survey of the development of Buddhist art and architecture in Japan as they were introduced from China, including the arts of later periods, with special emphasis on the formation of indigenous art forms such as narrative scroll-painting, decorative screens, and wood-block prints. Mr. Chang. Tu Th 4:10-5:25.

Seminars**80. Landscape in American Art and Photography.**

Investigation of selected topics in the history of American art and photography from the Colonial period to the beginning of the 20th century. Special emphasis to be placed on the rise of romantic landscape painting (the Hudson River School), on the images of the Civil War, and on the role of art and photography in the scientific exploration of the West. Prerequisite: A course in nineteenth century art or a course in the history of photography. Professor Parry. M 4:30-6:20.

[C3974. Seminar on Prints and Drawings. Not given in 1971-72.]

C3979y. Seminar on Romanticism.

An examination of various inter-related thematic strands in the arts of Italy, France, England, and Germany between 1750 and 1850. Prerequisites: Junior standing and permission of the instructor. Professor Staley. Th 2:10-4.

V3665x. American Art: 1940 to the Present.

The development of New York as an art center in the early 1940's, individual painters and sculptors and the movements with which they are associated, including abstract-expressionism, color field painting, pop art, minimal art. Miss Bernstein. M W 4:10-5:25.

C3977x. The Portrait in Modern Art.

The shift from facade to psyche in nineteenth and twentieth century portraiture in Europe and America: cultural and biographical content, body imagery, allegory as confession; the phenomenon of the self; influences of literature, photography, and the dance. Prerequisites: Junior standing and permission of the instructor. Professor Comini. Th 4:10-6.

C3982y. Dada and Surrealism.

Intensive examination of the movements in Europe and America. Oral and written reports as well as the creation of works of art under the instructor's guidance. Prerequisites: Junior standing and permission of the instructor. Professor Rice. M 2:10-4.

C3955x. (German C3955x). Seminar in German Expressionist Film and Art.

Films such as *The Cabinet of Dr. Caligari*, *Golem*, and *Metropolis*, and groups such as the *Bruecke*, *Arbeitsrat*, and *Novembergruppe*. Emphasis on the merging of the various media and their debt to literary and theatrical ideas. Prerequisites: Junior standing and permission of the instructor. Registration is limited. Mrs. Bletter. W 4:10-6 (film screenings W 7:10-9).

[C3975. Seminar on the Bauhaus. Not given in 1971-72.]**81, 82. The Literature of Art.****[2]**

Study of the literary sources used in art historical research; artists' letters, journals and treatises (by Leonardo, Rubens, Delacroix, Van Gogh), contemporary biographies (Vasari and Van Mander), the ideas and writings of leading critics and scholars (Fromentin, Baudelaire, Ruskin, the Brothers Goncourt, Huizinga, Burckhardt, Wolfflin, Worringer, Berenson, Fry, Panofsky, Gombrich, Read, Malraux). The Autumn Term will be devoted largely to writings of the artists and their contemporary critics. The Spring Term will be devoted to theories of modern criticism and scholarship. Intended for junior majors but also open to senior majors. Instructor to be announced. M 10-11:50.

86. Seminar in Art Criticism.**[2]**

An examination of modes of contemporary criticism with reference to current exhibitions and writings. Students will be required to engage in criticism of museum and gallery exhibitions. Attention will be given particularly to problems of language and opinion. The work of critics from Baudelaire on will be examined in its historical context and for its possible relevance to the present. Mr. O'Doherty. F 10-11:50.

- C3976y. The Image of the Indian and the Black Man in American Art.**
Discussion of general themes and analysis of specific representations of Indians and Black men in American art. Shifts in artistic attitude to be treated within the larger context of changes in style based on European traditions. Prerequisites: Junior standing and permission of the instructor. Professor Parry. W 2:10-4.
- V3668x. Seminar on Modern City Planning.**
Selected historical and theoretical problems in physical planning of the 20th century. Student reports and papers. Prerequisites: Art History V3662, junior standing, and permission of the instructor. Professor Collins. Tu 2:10-4.
- 96. Architecture since 1945. [17]**
Analysis of recent architectural theory and design based on primary source materials. Topics will include the work of Frank Lloyd Wright, Le Corbusier, Aalto, Kahn, Venturi, Moore, Team 10, and such visionaries as Buckminster Fuller, Archigram, the Metabolists, Soleri, and others. Prerequisites: Art History C3833 or Art History 70, junior standing, and permission of the instructor. Mr. Santomasso. W 4:10-6.
- [97. Art and Propaganda. Not given in 1971-72.]**
- [98. Social and Political Functions of Architecture.**
Professor Nyberg. Not given in 1971-72.]
- 99x, 99y. Independent Research for Seniors.**
Independent research for the senior essay, under a chosen faculty adviser. Hours to be arranged.

Studio Courses A maximum of four courses of studio work may be credited. Students taking more than two courses of studio work are required to validate the additional credit courses in art history. Studio courses 3, 4 and 5, 6 are given at Barnard and no special permission is needed to take those courses.

- 3, 4. Studio Painting. [0]**
Studio course in painting with acrylic and oil. Supplementary instruction in drawing and the use of color. Emphasis is on individual development. Miss Barr. Tu Th 2-5.
- 5, 6. Advanced Drawing and Painting. [0]**
A course designed to teach students basic skills by setting specific tasks to be executed both in drawing and in painting. Occasional use of life models. Limited to fifteen students. Mr. Yunkers. M W 3-6.

The remainder of studio courses are given at the School of the Arts, in Dodge Hall, and students may register for these only with written permission of the departmental representative (Professor Andre Racz). For further details see the Bulletin of the School of the Arts. Credit for the following: one course each term.

Drawing R1001x, R1002y; R1003x, R1004y. Drawing Workshop.

Model Fee: \$10 per term. Professors Goldin, Harrison and Racz, and Messrs. Lund and Stewart. Section I M W 1:10-4. Section II Tu Th 1:10-4. Section III M W 7:10-10 p.m. Section IV Tu Th 7:10-10 p.m. Section V F 1:10-5. Section VI Sat 9-12:50.

Painting R1011x, R1012y; R1013x, R1014y. Painting Workshop.

Model Fee: \$10 per term. Professors Goldin and Heliker, and Mr. Stefanelli. Section I M W 1:10-4. Section II Tu Th 1:10-4. Section III M W 7:10-10 p.m. Section IV Tu Th 7:10-10 p.m. Section V F 1:10-5. Section VI Sat 9-12:50.

Printmaking R1041x-R1042y. Woodcut and Wood Engraving.

Laboratory Fee: \$10 per term. Mr. Uchima. M W 7:10-10 p.m.

Printmaking R1043x-R1044y. Etching and Engraving.

Laboratory Fee: \$10 per term. Mr. Harrison. Section I Tu Th 1:10-4. Section II Tu Th 7:10-10 p.m.

Printmaking R1045x-R1046y. Lithography and Drawing.

Laboratory Fee: \$10 per term. Mr. Blackburn. M W 1:10-4.

Sculpture R1023x-R1024y. Sculpture Workshop.

Model Fee: \$10 per term. Professors Padovano and Swarz. Section I M W 9-11:50. Section II Tu Th 7:10-10 p.m. Section III F 1:10-5.

Sculpture R1025x-R1026y. Carving and Design.

Laboratory Fee: \$10 per term. Mr. Campbell. M W 7:10-10 p.m.

Sculpture R1027x-R1028y. Welding and Design.

Laboratory Fee: \$15 per term. Professors Padovano and Swarz. Section I M W 1:10-4. Section II Tu Th 9-11:50. Section III Tu 1:10-5.

Graduate Courses

Certain graduate courses given in the University are open to qualified majors with the consent of the chairman of the department and the major adviser. These courses are described in the Bulletin of the Graduate School of Arts and Sciences.

<i>Professors</i>	William A. Corpe, Donald D. Ritchie (Chairman; 1205 Altschul Hall)
<i>Associate Professors</i>	Patricia L. Dudley, David W. Ehrenfeld, Frederick E. Warburton
<i>Assistant Professor</i>	Patricia N. Farnsworth
	Officers of Columbia University offering courses open to Barnard students:
<i>Professors</i>	Sherman Beychok, James E. Darnell, Cyrus Levinthal, Frank G. Lier ¹
<i>Associate Professors</i>	Walter J. Bock, Alberto L. Mancinelli
<i>Assistant Professors</i>	Thomas G. Ebrey, Michael J. Schneider, Ronald R. Sederoff
	¹ Absent on leave, Spring Term.

The major program is designed to serve a variety of needs. Some students interested in general education major in biology because they desire specific knowledge of living organisms. Other students specialize in biology in anticipation of graduate work in this field, or in preparation for medical or dental school. Still others plan a career in government, educational or private research organizations, or they may wish to teach at the elementary or intermediate school level.

The sequence of courses to be followed depends on the ultimate aims of the student and is planned in consultation with members of the department. Planning of the course sequence in biology and related fields is necessary to provide a balanced program and to assure that prerequisites for advanced courses are completed in time.

Course 1-2 should be elected by those students who had a standard biology course in high school, as well as by those who have had no previous training in biology. Some courses taken outside the department may be counted toward a biology major: Anthropology V3201x, Chemistry C3072y, and Psychology 17.

If given special permission, qualified students may take courses offered in the graduate school. They should consult the Bulletin of The Graduate School of Arts and Sciences and their major advisers.

Three or four chemistry courses, chosen in consultation with an adviser, fulfill the minimum requirements in chemistry for graduate work in biology and for entrance into medical school, and this amount is generally regarded as the minimum for biology majors as well. A year of general physics, 3-4, should be taken by majors who plan on graduate work or a career in medicine. Graduate work in biology requires a knowledge of

German and French (or some other modern language). College mathematics, including calculus, is strongly recommended.

The Undergraduate Record Examination is given as the major examination. Students are encouraged to do summer work in biological laboratories or field stations. Assistance toward such work may be awarded to qualified students through the Edna Henry Bennett Memorial Scholarship Fund or the Herbert Maule Richards Fund.

Research projects may be selected by students desiring to do individual work. They are usually related to current faculty research and may lead to professional publication. Greenhouse space and laboratory equipment are made available for such projects.

1-2. General Biology. [1]

The development of biological knowledge, with emphasis on unsolved problems and the nature of scientific evidence; energy relations of living things, cellular activities, inheritance, development and differentiation, evolution, ecology, and social implications. Professors Ehrenfeld, Farnsworth, and Ritchie. Lec. M W F 9. Lab. (3 hours) M 1:10-4; Tu 9-11:50; 2:10-5; W 1:10-4; Th 9-11:50; 2:10-5; F 1:10-4.

C1007x. General Biology

1. Molecular biology, with emphasis on bacteria and viruses. The synthesis of large and small molecules, enzyme mechanisms and various aspects of genetics and cellular control of synthesis. 2. Evolution of more complicated processes in simple multicellular organisms; structure and function of organelles in cells of higher organisms; general problems of development. 3. Higher organism physiology, with emphasis on man. 4. Evolution and the principles of classification of plants and animals; the origin of life on earth. Prerequisite: any full-year course in calculus and one of the following: Physics C1006 or Chemistry C1404 or C1407. Messrs. Darnell and Levinthal. Lec. M W F 11. Rec. Tu 1:10-3.

C1008y. Project Laboratory in General Biology.

A project laboratory course in molecular biology, with emphasis on DNA, RNA, and protein syntheses and their control. Part I: students repeat an experiment which has been reported in the recent literature. Part II: students carry out an experiment which they have designed in consultation with the instructor. Prerequisite: C1007 or C1001, one 3000 level course, and permission of the instructor. Limited to approximately 20 students. Instructor to be announced. Lab: 8 hours to be arranged.

4. Natural History of the New York Area. [0]

Field observations of plants, fungi, birds, lower invertebrates, and insects. Methods of identification, collection, preservation. Visits to nearby semi-wild regions and to areas severely altered by human activity. Written permission of the instructor required. Professors Dudley, Ehrenfeld, Ritchie, and Warburton. Field trips, laboratory, and discussions. Hours to be arranged. One course credit, part in Autumn and part in Spring Term.

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- 5. Introduction to Genetics, B. [8]**
Mendelian and quantitative genetics of plants, animals, and man: segregation, recombination, measurement of linkage, and the genetics of continuous variation. Cytogenetics. Developmental genetics. Population genetics and evolution. Human genetics will be emphasized where it exemplifies general principles. Prerequisite: a course in introductory biology; calculus or statistics, or permission of the instructor. Professor Warburton. Lec. Tu Th 11. 1 hour recitation and demonstration.
- 6. Evolution. [1]**
The modern theory of evolution; the genetic and ecological mechanisms which adapt organisms to their environments and increase the diversity of species. Prerequisite: Biology 1-2 or equivalent. Professor Warburton. Lec. M W F 9. Laboratory-conferences (4 hours) to be arranged.
- 7. Invertebrate Zoology. [8]**
The biology of invertebrate animals: Comparative fine and gross structure, development, physiology and autecology. Major emphasis on marine invertebrates. Laboratory-demonstration includes a survey of major groups and an individual project on the ultrastructure, physiology, or ecology of an invertebrate animal. Prerequisites: a year of college-level biology and permission of the instructor. A course in cell biology is recommended. Professor Dudley. Lec. Tu Th 11. Lab/demonstration (4 hours) M 1:10-5 or Th 2:10-6.
- 8. Physiological Ecology. [4]**
The interactions of invertebrate and vertebrate animals with their physicochemical environment. Comparative physiology of responses to varying environmental stimuli; the concept of the niche; dynamics of population structure and oscillations; competition, cooperation and other interspecies interactions; ecological energetics. Prerequisites: a year of college-level biology and permission of the instructor. A course in general chemistry is recommended. Professor Dudley. Lec. M W F 1:10.
- 10. Microbiology. [5]**
General and applied aspects of microbiology with emphasis on microbial ecology. Factors influencing distribution, population density, natural selection. Interaction of microorganisms and macroorganisms; functions of microbes in biochemical cycles; distribution of microorganisms and their importance in aquatic, terrestrial, and human environments. Prerequisite: 1 year of college biology, general chemistry and permission of the instructor. Professor Corpe. Lec. M W 2:10, Lab. M W 3:10-5.
- 12. Cytology. [7]**
The biology of cells: composition, development, and activities of cell walls, membranes, mitochondria, plastids, and chromosomes. Laboratory includes practice in fixation, sectioning, homogenization, smears, photomicrography, and specialized types of microscopy, including electron microscopy. Prerequisite: a year of biology with laboratory. Permission of the instructor required. Professor Ritchie. Lec. Tu Th 10. Lab. (4 hours) individually arranged.
- 13. Biological Conservation. [3]**
The conservation of natural communities and species. Emphasis will be placed on the influence of human population increase and the

growth of technology on the current bio-environmental crises. The interaction between ecological theory and conservation practice will be stressed. Limited to 30 students. Prerequisite: a year of biology and permission of the instructor. Professor Ehrenfeld. Lec. M W F 11 and conf. to be arranged.

- Interdepartmental Course 1. Female and Male: An Interdisciplinary Approach.** [7]
 Professors Komarovsky, Ehrenfeld, Kessler, and Mates. May not be counted toward major. See page 61.
- 15. Cellular Physiology.** [4]
 An interpretation of vital phenomena at the cellular level in terms of known laws of physics and chemistry. Topics to be discussed will include the functional organization of cells; the relation of cells to their environment; molecular biology and physiology of membranes; bio-energetics; and the irritability and contractility of cells. Permission of the instructor required. Professor Farnsworth. Lec. M W 1:10 and Conf. F 1:10. Lab. (4 hours) to be arranged.
- 16. Physiology of Multicellular Organisms.** [4]
 An interpretation of vital phenomena on the organ level. Topics to be discussed include the major body systems and their functional relationships. Permission of the instructor required. Professor Farnsworth. Lec. M W 1:10-2. Conf. F 1:10-2. Lab. hours to be arranged.
- 17. The Biology of Urbanization.** [6]
 Changes in plant and animal life in regions undergoing increased urbanization; the natural history of cities; the past, the present, and the possible future; human factors causing biological changes in densely populated areas. Mr. Schmid. Tu Th 9:10-10:25.
- 18. Biological Management in Cities.** [6]
 Study of methods for controlling the non-human organisms living in or near cities; discouragement of disease-carriers and destructive species, encouragement of desirable species in malls, verges, parks, and small vegetated areas; possibilities for education in and public concern for plants and animals. Mr. Schmid. Tu Th 9:10-10:25.
- 20. Laboratory in Animal Behavior.** [0]
 Lab. techniques of animal behavior. Initial general exercises and individual projects. Orientation, thermoregulatory behavior, biological clocks, feeding behavior, and social behavior including reproductive behavior, effects of crowding, etc. Prerequisites: a year of college biology with laboratory and permission of the instructor. Professor Ehrenfeld. Discussion M 2:10. Laboratory hours to be arranged.
- W3002y. Structure and Function of Animals.**
 Introduction to animal form and function, with emphasis upon the comparative and evolutionary approaches. Interrelationship between the form-function complex and the environment of the organism; different morphological solutions to the same environmental problem. Laboratories include dissections of structures and the analysis of their function. Prerequisite: Biology C1001. Professor Bock. Lec. M W F 9. Labs. M W or F 1:10-5.
- W3022y. Developmental Biology.**
 An introduction to problems in developmental biology stressing the experimental evidence supporting classical observations and current

hypotheses concerning the regulation of morphogenesis and cell differentiation. Recommended preparation: genetics. Prerequisite: an introductory course in biology and written permission of the instructor. Prerequisite or corequisite: organic chemistry. Miss Abbott. Tu 11-12:15, Th 11-12:30.

W3040y. Laboratory in Cell and Developmental Biology.

Lectures cover material to be studied in the laboratory such as histology, sequences of developmental phenomena in selected organisms and techniques. The laboratory provides an introduction to basic materials and techniques in cell and developmental biology plus research project experience. Each laboratory section will be limited to 25 students. Sign-up sheets for sections will be posted outside the departmental office. Prerequisite or corequisite: a course in elementary cell biology or developmental biology. With permission of the instructor, background gained in other courses may fulfill this requirement. Miss Abbott, Mrs. Arnold, Mr. Holtzman, Mr. Rubin and Staff. Lec. Tu 12:30-1:20. Lab. Section I Tu 2:10-6, Section II Th 1:10-5, Section III Th 6:10-10 p.m. Four additional hours for each section to be arranged.

W3041x. Cell Biology.

An introduction to cell biology stressing the relations of cell structure to physiology and heredity, and the experimental and observational bases of present views of the cell. Prerequisite: one year of biology or a comparable background and written permission of the instructor. Mr. Holtzman. Tu 11-12:15 and Th 11-12:30.

C3044y. Project Laboratory in Cell Biology.

A project laboratory course featuring instruction in techniques involving growth of individual mammalian cells, selection of mutants, and fusion of cells of differing genotypes, followed by experimentation in the biochemical genetics of mammalian cells. Limited to approximately 25 students. Prerequisite: C1007x, one term each of biochemistry and genetics, or permission of the instructor. Mr. Chasin. Lab.: 8-12 hours to be arranged.

W3092y. Urban Ecology.

Investigation of the physical and biological problems related to the urban environment. Consideration will be given to some of the scientific and technical aspects of the problems which produce detrimental environmental effects in major cities, as well as the difficulties and costs related to eliminating these problems. Prerequisite: One 3000 level science course, or permission of the instructor. Messrs. Levinthal and Sewell. Tu Th 1:30-2:25.

[V3231x. Microanatomy of Seed Plants. Not given in 1971-72.]

W3241x. Structure and Interactions of Communities.

Plant and animal communities are discussed with respect to the ecosystem concept. Topics include energy interchange, biogeochemical cycling, limiting environmental factors, ecological regulation and biome composition. Prerequisite: C1001 or equivalent. Mr. Lier. Tu Th 4:10-5:25.

**Biology-
Chemistry C3501x.**

Biochemistry I.

Chemistry and metabolism of amino acids, carbohydrates, lipids, purines, pyrimidines and of the macromolecular constituents of living systems. Elementary thermodynamics in biochemical

equilibria. Enzymes and proteins in respiration. Introduction to some well-established relationships between structure and function of the biological macromolecules. Prerequisite: one year each of biology and organic chemistry. Prerequisite or corequisite: physical chemistry. Mr. Beychok. M W F 10.

61, 62. Problems in Biology. [0]

Independent work will be planned to suit the needs of the student after consultation with the instructors. Staff. Hours and credit by arrangement.

71. Senior Seminar. [0]

Reading of literature and discussion of fundamental problems of zoology. Professor Warburton. Hours by arrangement.

C3032y. Introduction to Genetics; A.

Fundamental mechanisms and principles of genetics. Topics will include the molecular mechanisms of mutation, recombination and differentiation; the genetic code; genetic control of morphogenesis; extrachromosomal inheritance; chromosome structure and function; and chromosome mechanics. Prerequisite: C1001 or C1007. Professor Sederoff. M W 1:10-2:25.

G4061x. Biology of Microorganisms.

Morphology and chemical and physical structure of microbial cells; growth, general physiology, genetics and mechanisms of metabolic control; aspects of immunology, infection, and resistance. Prerequisites: one year college biology, one course in biochemistry, and permission of the instructor. Professors Beychok, Corpe, and Zubay. Lec. Tu Th 2:10.

G6062y. Advanced Microbiology.

Nature, function, and biosynthesis of ultrastructural components of microbial cells. Selected topics of current importance in bacterial physiology. Prerequisite: G4061x or the equivalent and permission of the instructor. Professor Corpe. Lec. Tu Th 2:10.

<i>Professor</i>	Edward J. King (Chairman; 802 Altschul)
<i>Associate Professor</i>	Bernice G. Segal
<i>Assistant Professors</i>	Jacqueline I. Kroschwitz, Alexander R. Mazziotti
<i>Lecturer</i>	Grace W. King
<i>Assistants</i>	Barbara Goodstein, Olympia Jebedjian, Libby Miller

Chemistry majors seek to understand the nature of substances and their transformations. Upon graduation, some chemistry majors obtain research positions in chemical industry and medical laboratories. Others become technical writers or editors or science librarians. Many continue with graduate work in chemistry or related sciences or enter medical and other professional schools.

A student who is interested in chemistry should consult a representative of the department for advice in planning her program. In the first year she should take Courses 1 or 11 and 30 and start or continue the study of calculus. It is then possible for her to fulfill the basic requirements for the major in three years and to take advanced courses in the senior year. Students who have taken an Advanced Placement Course in secondary school may be given advanced placement and credit if they obtain a score of 4 or 5 on the examination and present evidence of satisfactory laboratory experience. A list of major requirements, several possible course sequences, and information about the major examination may be obtained from members of the department. Majors who complete a specific program receive an accrediting certificate from the American Chemical Society.

Students with a strong interest in biochemistry should supplement the basic chemistry courses with courses in biology and one or more of the university courses in biochemistry, e.g., Biology-Chemistry C3501x (see Biological Sciences listing).

The new laboratories of the department are modern and well equipped both for course work and for independent projects. Experience with modern instruments begins in the first-year course. Students may undertake independent projects under the guidance of members of the department. This has been done recently during both the academic year and the summer, and some of the work has been published in chemical journals. Short projects may also be undertaken in several of the courses of the first three years.

1. General Chemistry IA.

[6]

The particulate nature of matter in various states. Chemical transformations of matter, especially of ionic substances. Chemical

kinetics, energetics, and equilibrium. Laboratory experience with both qualitative and quantitative techniques. Professor King, Dr. King, and assistants. Lec. Tu Th 9:10-10:25. Recitation and laboratory, one afternoon: M, W, or Th 1:10-4:30 or Tu 2:10-5:30.

2. **General Chemistry II.** [1]
Atomic and molecular structure. The chemistry of carbon compounds. Giant molecules. Biochemical reactions. A terminal course for majors in fields other than science. Prerequisite: Course 1 or 11 or permission of the instructor. Professor Mazziotti, Dr. King, and assistants. Lec. M W F 9. Recitation and laboratory, one afternoon: M or Tu 1:10-4:30.
11. **General Chemistry IB.** [6]
Covers the same material as Course 1 but with greater emphasis on the theoretical and mathematical aspects. Prerequisite: superior preparation in either chemistry or physics and either some prior exposure to calculus or coregistration in a calculus course. Professor Mazziotti, Dr. King, and assistants. Lec. Tu Th 9:10-10:25. Laboratory, one afternoon: M, W, or Th 2:10-4:30 or Tu 3:10-5:30. Recitation hour to be arranged.
30. **Organic Chemistry I.** [6]
Atomic and molecular structure. An introduction to aliphatic and aromatic chemistry with emphasis on modern theories. Laboratory work stresses acquisition of basic techniques. Prerequisite: Course 1 or 11. Professor Kroschwitz and assistant. Lec. Tu Th 9:10-10:25. Laboratory, one afternoon: Tu, W, or Th 1:10-5, and if warranted, M 2:10-6.
31. **Organic Chemistry II.** [3]
More advanced aspects of organic chemistry and an introduction to biological macromolecules. Required for biology majors and pre-medical students. Prerequisite: Course 30. Professor Kroschwitz. Lec. M W F 11.
33. **Intermediate Chemistry Laboratory I.** [18]
An introduction to qualitative and quantitative organic analysis and to advanced techniques, including instrumental and chromatographic methods, with a library problem and a short project. Majors must take this course, but it is not required by all medical schools. Prerequisite: Course 30. Professor Kroschwitz and assistant. Lec. Th 1:10. Laboratories two afternoons: Tu Th and if warranted, W 1:10-5.
36. **Chemical Dynamics.** [3]
An introduction to chemical kinetics, the laws of thermodynamics, and electrochemistry with applications to analytical chemistry and biochemistry. Required of chemistry majors and suitable also for premedical and biological science students. Prerequisites: Course 30, Calculus I and II, and preceding or parallel, Physics 3-4. Recommended parallel: Course 38. Professor Segal. Lec. M W F 11.
38. **Intermediate Chemistry Laboratory II.** [18]
Quantitative techniques in volumetric analysis, radiochemistry, spectrophotometry, and pH measurement. Biochemical applications are included and some experience with computer programming is provided. Required of chemistry majors and suitable also for premedical and biological science students. Prerequisite: Course 59 or corequisite: Course 36. Professor King and Dr. King. Lec. Th

1:10. Laboratories two afternoons Tu Th 1:10-5 and if warranted, W 1:10-5.

59. Introduction to the Physical Chemistry of Biochemical Systems. [3]

Selected aspects of thermodynamics, kinetics, and electrochemistry with emphasis on applications to biochemical systems. Intended for premedical and biological science students. Prerequisites: Organic Chemistry II, Calculus I and II, Physics 3-4, or the equivalents. Recommended laboratory: Course 38. Professor King. Lec. M W 11.

61. Physical Chemistry I. [2]

Atomic and molecular structure with an introduction to quantum mechanics. Spectroscopy. Crystals and symmetry with an introduction to the use of group theory. Laboratory experience with various types of spectroscopy. Prerequisites: Course 30, Physics 3-4, and Calculus III. Calculus IV is recommended. Professor Segal. Lec. M W F 10. Laboratory Tu 1-5.

62. Physical Chemistry II. [2]

Kinetic theory of gases. Transport processes. Statistical thermodynamics, entropy and the third law, partition functions, equilibrium. Theories of chemical kinetics and solutions. Prerequisites: Course 30, Physics 3-4, and Calculus III. Courses 36 and 61 and Calculus IV are recommended. Professor Mazziotti. Lec. M W F 10.

68. Advanced Chemistry Laboratory. [0]

Preparation and characterization of inorganic and organic compounds. Construction and characteristics of electronic circuits of instruments. Instrumental methods of analysis. Prerequisite: Course 38. Professor Segal. Lec. W 3:10. Laboratory Tu Th 1:10-5.

[C3072y. Bio-organic Chemistry.

Professor Dawson. Not given in 1971-72.]

87, 88. Problems in Chemistry. [0]

Advanced individual laboratory projects for students who have completed the major requirements. Professors King, Kroschwitz, Mazziotti, and Segal. Eight hours by arrangement.

Graduate Courses

Certain graduate courses given in the University are open to qualified majors with the consent of the department and the major adviser. These courses are described in the Bulletin of the Graduate School of Arts and Sciences.

Breakage Charges

No charge is made for use of apparatus and materials in the chemistry laboratories. Payment will be expected for breakage in excess of \$10 per course.

Dance Faculty

*Modern, Ballet,
and Jazz* Jeanette Roosevelt, *Program Coordinator*; Sandra Genter,
Workshop Director; Gay Delanghe, Linda Lerner, Janet Soares
Folk Dance David Henry

Through its physical education program, Barnard College offers studio classes in modern dance, ballet, and jazz, as well as in general folk dance, Israeli Folk Dance, Balkan Folk Dance, and African (Ghanaian) Folk Dance.

There is also within the physical education program a body movement workshop, based upon Laban's Effort-Shape Theory, which emphasizes kinesthetic perception and range of movement possibility through the exploration and analysis of space, time, and energy. There are performance opportunities for advanced students. Those interested should confer with Miss Lerner.

In addition, the Barnard Dance Theatre Workshop affords skilled dancers the opportunity to perform in workshop presentations, in concerts and in programs integrated with drama productions and those of other departments in the College. It sponsors symposiums, master classes conducted by guest artists, and other special events. Interested students should confer with Miss Genter.

Students wishing to emphasize dance in their programs at Barnard may integrate dance courses for credit with majors in certain other disciplines. They should consult with Mrs. Roosevelt to plan such a program.

Dance 3. **Form in Dance Composition.**

Study of the development of dance form through the manipulation, according to formal composition principles, of rhythm, energy and design in movement. Prerequisite: written permission of the instructor. Mrs. Soares. M 6-8, F 11-1.

Dance 4. **Content in Dance Composition.**

Research in the source materials of dance composition and exploration of their uses in choreography. Sources include gesture, movement texture, rhythmic structure, movement shape, and literary ideas. Emphasis upon unity of style in the work of each student. Prerequisite: Dance 3 or equivalent study elsewhere. Admission with approval of the instructor. Mrs. Soares. M 6-8, F 11-1.

Students interested in dance will find the courses given below pertinent and should consult the departmental listings for course descriptions.

English 33-34. Play Production. Professor Janes and Mr. Pace

[English 38x. Critical Writing in Dance. Mr. Sorell. Not given in 1971-72.]

Music 1-2. An Introduction to Music.

Professors Doris, and Lazarevich, and Mr. Roussakis.

Music V1109x, History of Dance. Mrs. Roosevelt and Mr. Sorell.

V1110y.

Philosophy 33. Concept of Beauty. Professor Mothersill.



<i>Director of the Minor Latham Playhouse</i>	Kenneth Janes (231 Milbank Hall), Associate Professor of English
<i>Assistants to the Director</i>	Janet Soares, Donald Pace
<i>Technical Director</i>	Dennis Parichy
<i>Theater Manager</i>	Jane Hayes

The Minor Latham Playhouse is the center of activities for Barnard students interested in the theater. Majoring in various departments, the students bring to the Playhouse their special abilities and the experience of such courses as those listed below. For further information, consult Professor Janes. Students participate in the staged productions, the experimental and classic drama, dance and opera studio projects of The Barnard College Theater Company. The Gilbert and Sullivan Society and the Spanish, French, German, Russian, and Italian clubs work in close cooperation with the theater program. The Barnard Bulletin's drama column and WKCR (the Columbia radio station) offer other opportunities to develop abilities related to the theater arts. Barnard's location in New York enables students to attend productions on and off Broadway. Among the courses concerned with the theater are these, described in detail in the departmental announcements.

English

- 13, 14. **Dramatic Writing.** Professor Teichmann.
- 21. **The Uses of Speech.** Miss Caughran.
- 23. **Oral Interpretation of Literature.** Miss Caughran.
- 27. **Public Speaking.** Miss Caughran.
- 28. **Persuasive Speaking.** Professor Norman.
- 29. **Introduction to the Theater.** Mr. Pace.
- 31, 32. **Contemporary Theater.** Mr. Pace and Miss Castaños.
- 33, 34. **Play Production.** Professor Janes, Mr. Parichy and Staff.
- 35, 36. **The Actor's and Director's Interpretation of Dramatic Literature.** Professor Janes and Miss Castaños.
- [38x. **Critical Writing on Dance.** Mr. Sorell. Not given in 1971-72.]
- 63. **Shakespeare.** Professor Patterson.
- 69. **Renaissance Drama.** Professor Patterson.
- 86. **Drama from Ibsen to the Present.** Professor Ulanov.

French

- 16. **Advanced Oral French.** Professor Riffaterre.
- [34. **The French Theater of the Seventeenth Century.** Not given in 1971-72.]

- [35. **The French Theater of the Eighteenth and Nineteenth Centuries.**
Not given in 1971-72.]

40. **Twentieth-Century French Theater.** Professor Geen.

German

15. **Goethe and Schiller.** Professor Sakrawa.

[25. **German Drama in the Nineteenth Century.** Not given in 1971-72.]

26. **Modern German Theater.** Professor Bradley.

Greek and Latin

Classical **Greek Drama and Its Influences.**
Literature C3123y. Miss Sheffield.

[Greek V3305x. **Tragedy.** Professor Bacon. Not given in 1971-72.]

Greek V3307x. **Greek Comedy.** Professor Vaio.

Italian

[V3642y. **A Study of Contemporary Arts: The Italian Film.**
Professor Lorch. Not given in 1971-72.]

Music

V1005x. **The Opera.** Professor Beeson.

V1109x, V1110y. **History of Dance.** Mrs. Roosevelt and Mr. Sorell.

Russian

[V1229x. **Russian Drama and Theater.**
Professor Belknap. Not given in 1971-72.]

Spanish

[22. **The Spanish Drama.** Professor Ucelay. Not given in 1971-72.]

<i>Professors</i>	Marion Hamilton Gillim (Chairman: 411 Lehman Hall), Raymond J. Saulnier ¹
<i>Associate Professors</i>	Jean Gooch, Deborah D. Milenkovitch
<i>Instructors</i>	Cynthia Lloyd and an additional instructor to be announced
<i>Assistant</i>	Abbie Gail (Teitz) Rabin
	Officers of Columbia University offering courses open to Barnard students:
<i>Professors</i>	Donald J. Dewey, Aaron W. Warner
<i>Assistant Professors</i>	James Heckman, Donald Mathieson, Norman Mintz, Merle Weiss
<i>Instructor</i>	Anwar Shaikh
<i>Preceptor</i>	Joel Koblentz

¹ Absent on leave, Autumn Term.

As a major in economics, a student may arrange a program, with the help of her departmental adviser, to suit her individual needs and interests. For those planning graduate study in economics, special attention to economic analysis and statistics is recommended. Suitable programs can be arranged for students desiring to enter other professional schools or planning to go directly into careers in business, research, government or teaching. An appropriate sequence of courses can be planned, also, for the student whose interest is primarily in economics as a basis for informed citizenship.

A student majoring in economics will be required to take Courses 1 and 2; 27 or 28. Courses 7, 8 and both 17 and 18 are strongly recommended.

Other social sciences: In view of the essential unity of the social sciences, a major is required to take, in addition to a minimum of 8 courses in economics, one course in each of two of the following departments, selected in conference with her adviser: anthropology, geography, government, history, philosophy, psychology, religion, sociology.

Each senior major is required to prepare a research paper, which may be done in connection with one or two semesters of the senior seminar, 51, 52, or in 61, 62 over a full year. No major examination is required.

1. **Introductory Economics.**

A study of basic economic concepts with emphasis on the analysis of the aggregate economy. Subjects covered include national income and its determination, business and labor organizations, business cycles, government finance and monetary economics. Professor Gooch, Mrs. Lloyd, and an additional instructor to be announced. Section I M W F 10. [2] Section II Tu Th 9:10-10:25. [6] Section III Tu Th 10:35-11:50. [7]

2. **Introductory Economics.**

Subjects covered include the determination of price and income distribution through supply and demand; monopoly and antitrust policy; international economics; problems of developing nations; and alternative economic systems. Professors Gillim and Gooch, and Mrs. Lloyd. Section I M W F 10. [2] Section II Tu Th 9:10-10:25. [6] Section III Tu Th 10:35-11:50. [7]

3. **Introduction to Economic Analysis.** [13]

Fundamental concepts of national income and price theory. Intended primarily for nonmajors. May be used in place of Economics 1, 2 to satisfy the prerequisite for more advanced courses at Barnard. Students intending to major in economics are urged to take Economics 1, 2. Limited enrollment. Professor Milenkovitch. Tu W Th 4:10-5:00.

7. **United States Economic History.** [9]

The causes of economic growth in the United States between the Colonial period and the Civil War. In illustrating the changing relations among the factors of production — land, labor, capital and entrepreneurship — emphasis will be placed on advances in technology, movements of capital and the contributions of all ethnic groups to the development process. Professor Gooch. Th 1:10-3:25.

8. **United States Economic History.** [9]

The development of the American economy from the Civil War to the present time. Changes in the structure of market demand, in costs and in technology will be examined for their effect on industrial, financial and social institutions. The adequacy of the enterprise system, together with government, to solve the economic and social problems of earlier decades in contrast to those of the nineteen-seventies will be examined critically. Professor Gooch. Th 1:10-3:25.

10. **The Role of Women in Modern Economic Life.** [6]

Topics to be discussed include the extent of women's education; labor force participation by women; economic factors affecting marriage, divorce and fertility; economic discrimination against women; effect of government policy on women's position; and international and historical comparisons. Prerequisite: Courses 1, 2 or equivalent. Mrs. Lloyd. Tu Th 9:10-10:25.

12. **The Economics of Worker-Management.** [13]

Theory and practice of worker-managed economies. Short- and long-run microeconomic theory of producers cooperatives; macroeconomic implications. Performance of worker-managed economies (Yugoslavia); producers cooperatives (Israel, Algeria); effects of codetermination and labor consultation (Western European). Prerequisite: Courses 1, 2 or equivalent. Professor Milenkovitch. Tu Th 4:10-5:25.

16. **Government Finance and Fiscal Policy.** [9]

Principles of government expenditure and taxation, and the American systems of spending and taxing. Government debt; government finance in relation to the distribution of national income and wealth and to economic growth and stability; and the financial problems of state and city governments. Prerequisite: Courses 1, 2 or permission of the instructor. Professor Gillim. Tu 2:10-4.

- 17, 18. Introductory Statistics.** [1]
 Autumn Term: The gathering, processing, presentation and analysis of statistical data; linear correlation; and an introduction to statistical inference. Spring Term: Index numbers; time series; multiple correlation; and other techniques used in the social sciences; prerequisite: Course 17. Professor Gillim. Lec. M W 9. Lab (2 hours) M 2:10-4 or Tu 2:10-4 or 4:10-6.
- [24. The Latin American Economy.**
 Professor Gillim. Not given in 1971-72.]
- 26. Contemporary Economic Issues.** [5]
 A survey of the leading economic issues in present-day American life, including international as well as domestic questions. Lectures and discussion. Open to all except freshmen. Professor Saulnier. M W 2:10-3:25.
- 27. Intermediate Macroeconomics.** [7]
 Keynesian and neo-Keynesian analyses of the aggregate economy. Prerequisite: Courses 1, 2. Professor Gooch. Tu Th 10:35-11:50.
- 28. Intermediate Microeconomics.** [7]
 Theory of consumer demand, the pricing of goods and services in perfect and imperfect competition, the pricing of the factors of production, and a brief history of these ideas. Prerequisite: Courses 1, 2. Professor Gooch. Tu Th 10:35-11:50.
- 29. The Economics of Underdeveloped Areas.** [5]
 The economic, demographic, social and cultural forces affecting the economic growth of underdeveloped countries. A short paper is required. Prerequisite: Courses 1, 2 or permission of the instructor. Professor Milenkovitch. M W 2:10-3:25.
- 30. Comparative Economic Systems.** [5]
 An analysis of the principles of planned and market economies. Systems are compared from a theoretical point of view and through the study of typical economies: the United States, the Soviet Union, China, Yugoslavia and France. Prerequisite: Courses 1, 2 or permission of the instructor. Professor Milenkovitch. M W 2:10-3:25.
- 33. Economic Planning.** [13]
 Planning techniques such as input-output analysis and linear programming and their applications to economic policy. Planning of national economies in Western Europe, Soviet bloc and underdeveloped countries. Regional planning, including metropolitan regions. Prerequisite: One of the following courses: Economics 16, 27, 28, 29 or 30. Professor Milenkovitch. Th 2:10-4.
- 36. Colloquium on Political Economy.** [0]
 Selected topics in political economy: social values underlying economic theories; economic institutions and political power; cooperative property and participatory democracy. Readings from Smith, Marx, Veblen, Weber, Galbraith, Polanyi, Sweezy, Lange, and others. Specific emphasis to be determined by the interests of participants. Permission of the instructor required. Professor Milenkovitch. Th 2:10-4.
- 51, 52. Economics Seminar.** [0]
 Reading, reports, and discussion centering around the preparation of an essay required of senior majors. Autumn Term: Professor Gillim. Spring Term: Professor Saulnier. W 3:30-5:30.

- 61, 62. Studies in Economics.** [0]
 Additional credits may be obtained in this course for independent work done in connection with some other course in economics. Special reports, a term paper, or the completion of supervised field work is required. The essay required of senior majors may be written in 61, 62 rather than in 51, 52. The course may be repeated. Members of the Department.
- W1211y. Introduction to Mathematics for Economists.**
 The development of fundamental mathematical concepts and techniques applicable to economics and business. The rudiments of calculus and related topics, with some of their elementary applications to micro- and macroeconomic theory. Prerequisite: Courses 1 and 2. Mr. Shaikh. M W 4:10-5:25.
- W3111x. Intermediate Mathematics for Economists.**
 Elementary set theory, matrices and vectors, linear algebra, differential and integral calculus, with some applications to economic theory. Prerequisite: Courses 1 and 2. Mr. Shaikh. M W 4:10-5:25.
- W3212y. Introduction to Mathematical Economics.**
 The application of mathematical techniques to economic analysis. The theory of the firm and competition; theory of demand; static macroeconomic models. Mathematical tools are developed as needed. Prerequisite: Courses 1, 2 or equivalent and permission of the instructor. Recommended preparation: some knowledge of calculus. Professor Heckman. M W 4:10-5:25.
- C3065x. Econometrics.**
 Modern econometric methods and the statistical background for their understanding and application. The general linear statistical model and its extensions; simultaneous equations methods and the identification problem; time series problems; forecasting methods. No statistical background is assumed. A background in introductory calculus and/or linear algebra is helpful but not necessary. Professor Heckman. M W 2:10-3:25.
- G4901x. Introduction to International Economics.**
 The role of international trade in resource allocation and the consequence of trade for economic welfare; the balance of payments and foreign exchange market; balance of payments disequilibrium and adjustment; international financial institutions and policy; the theory of protection and commercial policy; trade and development; economic integration. Consent of Barnard department and major adviser required. Professor Mintz. M W 11 and a third hour to be arranged.
- F3711x. Monetary Economics.**
 The nature of money and its role in the United States economic system. The functions and policies of the Federal Reserve System. Issues of monetary management. The development of monetary theory. The relation of money to prices, interest rates and income. Prerequisite: Courses 1, 2 or equivalent. Professor Mathieson. M W 2:40-3:55.
- G4714y. Financial Institutions.**
 A study of the functioning of the principal public and private agencies comprising the financial system of the United States; their relation to the flow of money payments and the process of capital

formation. Open to seniors. Prerequisite: Courses 1 and 2 and at least two other courses in economics. Professor Saulnier. Tu 2:10-4.

G4453x. Industrial Relations.

Contemporary developments and trends in industrial relations in industrialized countries; role of trade unionism; theory and practice of collective bargaining; impact of technology and structural economic change. Regulation of industrial conflicts; problems of joint consultation and joint management arrangements; industrial relations in regulated and public enterprises. Relevance of industrial relations to national economic planning. Consent of Barnard department and major adviser required. Professor Warner. F 4:10-6.

G4251x-G4252y. Industrial Organization and Control.

The structure and performance of the American economy, with particular attention to the technical forces, historical accidents, and public policies which have shaped them. The problem of measuring concentration and productivity performance. Detailed discussion of the economic features of antitrust regulation in the light of modern economic analysis and empirical work. Prerequisite or corequisite: Economics 28. Professor Dewey. M W 1:10.

W3228x. The Urban Economy.

Past and present economic functions of cities. Growth of metropolitan areas. Location theory; theories of site rent and urban form; analysis of the urban economic base. Impact of changing technology and social structure on central cities and suburbs. Problems of older central cities, including transportation, public finance, housing, and urban renewal. Effects of federal policy. The future of the city. Prerequisite: Economics 3 or equivalent. Mr. Koblenz. Tu Th 2:40-3:55.

W3451x. Labor Economics.

Structural characteristics of the organization of the labor force. Factors determining size, allocation, and remuneration of the labor force. Labor unions. Public policy questions and analytical tools available to deal with them. Prerequisite: Courses 1, 2 or equivalent. Mrs. Weiss. M W 11-12:15.

[G4328x. Yugoslav Economic Planning. Not given in 1971-72.]

Graduate Courses

Certain other graduate courses given at Columbia University are open to qualified majors with the consent of the department and the major adviser. A description of these courses will be found in the Bulletin of the Graduate School of Arts and Sciences and the Graduate School of Business.

The following interdepartmental program is supervised by the Committee on Education:

<i>President, ex officio</i>	Martha Peterson
<i>Frederick A. P.</i>	
<i>Barnard Professor</i>	
<i>of Education,</i>	
<i>Teachers College,</i>	
<i>Columbia University</i>	Lawrence A. Cremin
<i>Professor of English</i>	Barry Ulanov
<i>Professor of History</i>	Annette K. Baxter
<i>Professor of</i>	
<i>Mathematics</i>	Patrick X. Gallagher
<i>Professor of</i>	
<i>Philosophy</i>	Joseph G. Brennan
<i>Professor of</i>	
<i>Political Science</i>	Demetrios Caraley
<i>Associate Professor</i>	
<i>of Education</i>	Patricia Albjerg Graham (Chairman, 336B Milbank Hall)
<i>Associate Professor</i>	
<i>of French</i>	Renée Geen
<i>Assistant Professor</i>	
<i>of Education</i>	
<i>and Psychology</i>	Susan Riemer Sacks
<i>Assistant Professor</i>	
<i>of Psychology</i>	Edward S. Cobb

The Education Program does not constitute a major; it is taken in conjunction with a major in some other subject.

The program is open to qualified Barnard students who wish to teach in elementary or secondary schools. With the psychology requirement (Psychology 5, 27, or 34), either History 65, or Philosophy 84, and a course in methods of teaching a specific subject, a student who completes Education 3-4 at the secondary level receives a New York State Provisional license, which is valid for five years. Students in the elementary program must take three courses to be chosen among Psychology 5, 27, and 34, History 65, and Philosophy 84. All are required to take Education 2, 3 and 4 in order to qualify for the New York State Provisional license. A permanent license requires a master's degree, which need not include any additional work in education.

All students are enrolled in Education 3-4, which is directly concerned with the principles and practice of classroom teaching.

Before the end of the sophomore year, students interested in teaching should confer with the director of the Education Program. Juniors who wish to apply for admission to the program should file application forms, which may be obtained in the office of the Education Program during the Autumn Term. Decisions for admission to the Program are normally announced on the first day of the Spring Term of the junior year.

- Education 2. Problems in Teaching Reading and Arithmetic.** [0]
 Children's problems in learning to read and to do arithmetic are examined through direct contact with children and through study of the available literature. Students will tutor children with these difficulties and will assess their work in a weekly seminar. This course is a prerequisite to student teaching in the elementary grades. Limited to students admitted to the Education Program. Seminar. Professor Sacks. Tu 2:10-4.
- Education 3-4. Introduction to Teaching in the Elementary and Secondary Schools.** [5]
 This course involves observation and student teaching in elementary and secondary schools. The accompanying seminar examines contemporary issues in American education. Individual conferences assess pedagogical problems encountered in student teaching. Student teaching is done during one term four or five half-days a week, generally in the morning. All students participate in the seminar during both terms. The term in which student teaching is done the course will be designated Education 3 (I) or 4 (I) and will be considered equivalent to two courses. Credit will not be given for the term in which only the seminar is attended. Prerequisite: admission to Education Program. Seminar. Professors Graham and Sacks. Autumn Term: W 2:10-4; Spring Term: M 2:10-4.
- History 65. History of Education in the United States.** [5]
 The development of American education in the context of social and intellectual history. Professor Graham. M 2:10-4.
- Philosophy 84. Philosophy of Education.** [4]
 Classical readings include Plato's *Republic* and Rousseau's *Emile*. The idea of individualism, in both its European and American forms, is traced from Rousseau to Dewey, leading to discussion of problems in present day American educational ideology. Selected readings are assigned concerning ideas of "middle class" and black education. Discussion of theories of higher education is supported by readings from Newman's *The Idea of a University* as well as some related to recent events in American universities. Professor Brennan. M W F 1:10.
- English 98. IX The Teaching of English.** [0]
 Primarily for students in the Education Program. Professor Prescott. W 3:10-5.
- History 63. Problems in the Teaching of History.** [17]
 The selection and organization of content for junior and senior high school history courses; use of primary sources, secondary readings, and other relevant materials; problems of evaluation. Primarily for students in the Education Program; others by written permission of the instructor. Mr. Clemens. M 4:10-6.

<i>Professors</i>	John A. Kouwenhoven, David A. Robertson, Jr., Eleanor Rosenberg, Eleanor M. Tilton, Barry Ulanov
<i>Adjunct Professor</i>	Howard M. Teichmann
<i>Associate Professors</i>	Kenneth H. Janes (Director of Minor Latham Playhouse), Ruth M. Kivette (Departmental Representative, 408A Barnard Hall), Joann Ryan Morse, Richard A. Norman (Chairman; 412 Barnard Hall), Remington P. Patterson ¹
<i>Adjunct Associate Professors</i>	Joy Chute, Elizabeth Hardwick, Ellen Moers
<i>Assistant Professors</i>	Lois A. Ebin, Anthony G. Henderson, Maire J. Kurrik (Director of English A, 422 Barnard Hall), Anne Lake Prescott, Catherine R. Stimpson
<i>Associates</i>	Elizabeth Caughran, ¹ Elizabeth Dalton, Marjorie Housepian Dobkin, Quandra Stadler
<i>Lecturer</i>	Janice Farrar Thaddeus
<i>Instructors</i>	Ruth M. Mathewson, Donald Pace, Christine Royer
<i>Assistants</i>	Margaret D. Hance, Janet Soares

¹ Absent on leave, Spring Term.

All courses in English are open to nonmajors. The course descriptions list prerequisites and state which classes have limited registration.

A student majoring in English is expected to increase her knowledge of literary history and the development of the English language, to become familiar with the works of a number of the principal writers in English, to gain in ability to interpret and appreciate a variety of literary texts, and to improve her speech and her writing. She will be required to demonstrate achievement in the disciplines and procedures of English through long essays written in the senior seminars.

In consultation with her departmental adviser, an English major will plan her program to include a distribution of courses that present the major writers, the major periods, and the significant genres of the literature. All majors will take course 93 (or 93y) in the sophomore or junior year, and Course 59-60, the English Colloquium, in the junior year. In addition, a major in literature will take one section of Course 97 and one section of Course 98. A major in writing will be required to do a long piece of work in her senior year, in one of the advanced writing courses. A major in speech will work on a special senior project in one of the advanced courses in her special field.

Introductory

A. Freshman Studies in English. [0]

An approach to literary skills through intensive reading, regular assignments in composition, and discussion; frequent individual conferences with the instructor. Prescribed for all freshmen. Other English courses open to freshmen in the Autumn Term are Courses 21 and 27, either of which may be taken parallel to A. With the written permission of the instructor, a freshman may elect a literature course in the Spring Term. Professor Kurrik and Members of the Department. Sections of Course A meet at the following hours: M W F 9, 10, 11, 12:10, 1:10, 2:10. Tu Th 9:10-10:25, 10:35-11:50, 2:10-3:25.

Room assignments will be posted outside 401 Barnard Hall.

2 [or 2x]. Special Seminar in Reading and Writing. [0]

For students who want additional work in reading and writing at the first-year level. Special reading topics. Permission of the Departmental Representative (408A Barnard Hall) required. Professor Ebin and Mrs. Mathewson. Hours to be arranged.

40x, 40y. Seminars on Special Themes. [0]

Open to a limited number of freshmen and sophomores who have satisfied the basic requirement in English A, and to juniors and seniors if numbers permit. Permission of the instructor required. Course 40 is not normally accepted as part of the major requirement.

40x. (Autumn Term)

I. Dickens and the Comic Tradition.

The achievement of Dickens in relation to the English comic tradition; his influence on later writers. Professor Morse. M W F 10.

II. The Southern Imagination.

Southern themes, settings, and attitudes in works by such writers as Chesnutt, Faulkner, Ransom, and Williams. Professor Kivette. M W F 11.

III. The Figure of Christ in Literature.

Mythical, symbolic, and secularized interpretations of Christ; readings in Scripture and in such writers as Nietzsche, Dostoevski, and Yeats. Professor Kurrik. M W F 11.

IV. Images of Woman in Literature.

Sexual roles and the place of woman as represented in the Bible and in works by Shakespeare, Jane Austen, D. H. Lawrence, Doris Lessing, and others. Professor Stimpson. M W F 1:10.

V. British Institutions.

The university, the school, the Church of England, and the family as represented in novels, plays, and memoirs (1855-1955). Professor Robertson. Tu Th 2:10-3:25.

VI. Psychoanalytic Approaches to Literature.

A study of works by Shakespeare, Dostoevski, James, Kafka, and Mann; readings in Freud and other psychoanalytic writers. Miss Dalton. Tu Th 2:10-3:25.

40y. (Spring Term)**VII. Yeats and Joyce.**

The achievement of modern Irish literature as represented by William Butler Yeats and James Joyce. Professor Henderson. M W F 10.

VIII. Other Worlds.

The exploration of unseen worlds — Paradise, Hell, Utopia, outer space, the future — by writers ranging from Dante to C. S. Lewis. Professor Prescott. M W F 11.

IX. The City in Literature.

The effect of the growth of cities on the literary imagination. Readings in Stephen Crane, Theodore Dreiser, New York poets, and others. Professor Stimpson. Tu Th 10:35-11:50.

X. Explorations of Black Literature.

A study of black expression in America: slave narratives, folklore, and song; works by Chesnutt, Du Bois, and others. Mrs. Stadler. Tu Th 10:35-11:50.

XI. Hero and Anti-Hero.

A study of archetypal heroes in works by Homer, Cervantes, Melville, Stevenson, Shaw, Joyce, and other writers. Professor Ebin. Tu Th 2:10-3:25.

Writing

Registration in each course is limited, and the written permission of the instructor is required; signed departmental registration blanks are to be filed with Professor Kivette (408A Barnard Hall). Before registering for a course numbered 7-14, a student should have earned a grade of B— or better in at least one of the courses numbered 3-6. Two writing courses may not be taken concurrently unless one of the two is Course 13 or 14. Course 93 (or 93y) is to be counted as a writing course.

3, 4. Structure and Style.**[0]**

English composition above the first-year level. Frequent individual conferences. Students may take either term or both.

I. Fiction and personal narrative. Miss Dalton. M 3:10-5.

II. Essays. Autumn Term: Professor Ebin. M 2:10-4. Spring Term: Professor Kouwenhoven. Tu Th 9-9:50.

III. Autumn Term: exposition. Spring Term: poetry. Dr. Thaddeus. M 2:10-4.

6. Advanced Composition.**[0]**

The members of the class will keep daily journals and work up the material in finished papers, fiction and nonfiction. Mrs. Dobkin. Th 3:35-5:25.

7, 8. Experiments in Writing.**[0]**

Advanced work in various forms. Individual conferences with the instructor. Professor Hardwick. Th 2:10-4.

11, 12. Story Writing.**[0]**

Advanced work in writing, with emphasis on the short story.

Individual conferences with the instructor. Some experience in the writing of fiction is prerequisite to this course. Professor Chute.
Tu 4:30-5:25.

13, 14. Dramatic Writing. [0]

The development of a dramatic situation in terms of short fiction, the theater, television, motion pictures, and radio. Completed works are discussed, given dramatic readings by the class, and recorded on tape. Professor Teichmann. Tu Th 2:10-3:25.

**Speech
and Drama**

The work of English majors with a special interest in speech should include Course 21 and two half-year courses in public speaking, discussion and debate, voice and diction, or oral interpretation. To elect any course in speech, a student must secure the written permission of Professor Norman or Miss Caughran. The Barnard College Theater Company and the Columbia radio station, WKCR, offer practical experience.

Students who have a special interest in the drama will find a summary of activities and courses related to that field on pages 86-87.

21 [or 21y]. The Uses of Speech. [0]

Training in voice production and clear articulation. Designed to improve the student's speech through drill, practice in reading aloud, the presentation of oral reports, and extemporaneous speaking. Use of the language laboratory. Registration limited to 15 students. Professor Norman and Miss Caughran. M W F 11.

[22. American and British Dialects.

Miss Caughran. Not given in 1971-72.]

23. Oral Interpretation of Literature. [0]

Study of literary texts for oral performance. Fictive prose and poetry, with class projects exploring reading modes from informal presentation to reader's theater. Miss Caughran. M W F 10.

27. Public Speaking. [0]

Study of the basic principles of informal and formal speaking with emphasis on the selection and organization of materials, on audience psychology, and on effectiveness of delivery. Professor Norman. Tu Th 10:35-11:50.

28. Persuasive Speaking. [0]

Theory and practice of persuasive speaking: the use of evidence and opinion, logic and audience motivation in the presentation of controversial views and current issues. Professor Norman. Tu Th 10:35-11:50.

29. Introduction to the Theater. [0]

A survey of historic and modern theater with emphasis upon the origins of theater, the nature of the dramatic act, and the place of theater in society. Special attention is paid to the interrelation of dramatic literature, styles of production, and the organization of theater. Individual and group projects in related research. Class attendance at professional theater productions. Mr. Pace.
Tu Th 2:10-3:25.

31, 32. The Contemporary Theater. [0]

A study of the major developments in the contemporary theater, especially the nature and treatment of the text, the actor's art, and the function of the director. The course will include acting and directing projects by class members. Permission of the instructor required. Mr. Pace and Miss Castaños. M 3:10-5. Lab. hours to be arranged.

33, 34. Play Production. [0]

A study of the technical aspects of the theater and the ways in which they complement the work of the playwright, director, choreographer, and actor. Guest lecturers in specialized areas from the professional theater. Permission of the instructor required. Professor Janes, Mr. Parichy and Theater Staff. Tu Th 3:35-5:25.

35, 36. Actor's and Director's Interpretation of Dramatic Literature. [0]

The practical study of Renaissance and Restoration dramatic literature for actors and directors. Permission of instructor required. Professor Janes and Miss Castaños. F 3:10-5. Lab. hours to be arranged.

[38x. **Critical Writing on Dance.** Not given in 1971-72.]

Language and Literature For nonmajors, courses marked § will count toward the general college requirement.

§51, 52. An Introduction to Literary History. [4]

A general view of the scope and variety of English literature and its place in world literature through study of selected writers and their works. Autumn Term: Chaucer through Milton. Spring Term: Dryden to the present. Professors Ebin and Henderson. M W F 1:10.

[53. **Anglo-Saxon Language and Literature.** Not given in 1971-72.]

§55. Chaucer. [7]

Chaucer's *Canterbury Tales*. Professor Prescott. Tu Th 10:35-11:50.

[§56. **Chaucer and his Contemporaries.** Not given in 1971-72.]

58. Medieval Literature. [7]

English and Continental literary works from the fourth to the fifteenth century, studied in the original or in translation. Professor Ulanov. Tu Th 10:35-11:50.

59-60. The English Colloquium.

The major writers, major works, and major genres of the literature from the late fifteenth century to the late eighteenth century, examined in terms of the leading ideas of the period. Required of junior majors; election by non-majors if numbers permit. Meetings of all four sections will be arranged from time to time for lectures on special topics related to the course.

I. The Traditions of Love. [5]

An exploration of the literary modes in which ideas about love found expression: God's love of man and man's love of God; courtly love, Petrarchan love, neoplatonic love, and romantic love; love of mankind expressed as concern for society. Professors Rosenberg and Prescott. M 2:10-4.

II. Reason and Passion.**[4]**

Reason and revelation: passion and destiny; the five senses and the seven deadly sins. Reason and exploration: inner, outer, and other worlds. Reason and imagination: art and nature; rationality and irrationality. Professor Kivette and Dr. Thaddeus. W 1:10-3.

III. Imitation and Creation.**[17]**

New ideas of the mind's relation to the worlds it perceives and the consequences for art. New perspectives, the emergence of new forms, experimentation with old forms, and the search for an appropriate style. The change from public performance to private reading. Professors Ebin and Morse. W 3:10-5.

IV. Ideas of Order and Disorder.**[13]**

Form and structure achieved or defeated in the work of art and in the world. The rise of the man of letters and vernacular literature. The drama of self-definition. The development of modern notions of subjectivity, self-confidence, and revolutionary change. Professors Ulanov and Kurrik. Th 3:35-5:25.

§63. Shakespeare.**[3]**

A critical and historical introduction to Shakespeare. About fifteen plays—comedies, histories, and tragedies—will be read, with emphasis on the major plays. Professor Patterson. M W F 11.

[§66. Spenser and the Tudor Renaissance.

Professor Rosenberg. Not given in 1971-72.]

§67. Milton.**[2]**

A close reading and critical analysis of Milton's poetry with particular attention to *Paradise Lost*, *Paradise Regained*, and *Samson Agonistes*. Professor Kivette. M W F 10.

§68. Seventeenth-Century Literature.**[3]**

Classicism and mannerism in poetry from Jonson and Donne to Marvell; plain and ornamented prose in Bacon, Burton, Browne, Milton, and others. Professor Rosenberg. M W F 11.

§69. Renaissance Drama.**[5]**

Major plays of the English Renaissance from the Tudor interlude to the closing of the theaters, with emphasis on Marlowe, Jonson, and Webster. Professor Patterson. M W F 2:10.

§71. The Novel.**[12]**

The central English tradition, including works by Defoe, Richardson, Fielding, Austen, Bronte, George Eliot, Thackeray, and Dickens. Professor Moers. M W F 12:10.

[§73. The Augustan Age.

Professor Henderson. Not given in 1971-72.]

§74. Eighteenth-Century Literature.**[17]**

Literature in the setting of eighteenth-century England with emphasis on comedy and satire; the development of the novel. Professor Henderson. M 3:10-5.

§76. Prose and Poetry of the English Romantics.**[6]**

The thought and style of Blake, Wordsworth, Coleridge, Hazlitt, Lamb, De Quincey, Byron, Keats, and Shelley. Professor Tilton. Tu Th 9:10-10:25.

- §77. **The Victorian Age in Literature.** [7]
Prose and verse concerning problems of society and of religion: Carlyle, Disraeli, Macaulay, Mill, Newman, Huxley, Tennyson, Browning, Arnold. Professor Robertson. Tu Th 10:35-11:50.
- §78. **Victorian Poetry and Criticism.** [7]
Poems by Tennyson, Browning, Arnold, Rossetti, Meredith, Morris, and Swinburne. Essays by Ruskin, Arnold, Meredith, Pater, and Wilde. Professor Robertson. Tu Th 10:35-11:50.
- §79. **American Literature, 1828-1855.** [9]
Makers of legend and romance: Irving, Longfellow, and Hawthorne; transcendentalists: Emerson and Thoreau; prophets: Melville and Whitman; poets and critics: Poe and Lowell. Professor Tilton. Tu Th 2:10-3:25.
- §80. **American Literature, 1865-1965.** [9]
The experimenters in prose and poetry from James to the present. Miss Royer. Tu Th 2:10-3:25.
- §82. **Seminar in American Literature.** [0]
Melville, Whitman, and a twentieth-century writer to be chosen by the student in consultation with the instructor. Professor Kouwenhoven. W 9-10:50.
83. **Modern Literature and the Allied Arts.** [9]
The focus and the vocabulary of the modern artist, examined and defined first in terms of literature, and then through a comparison with painting, music, the dance, the theater, and the motion picture. Professor Ulanov. Tu Th 2:10-3:25.
84. **(Art History 84). The Vernacular in the American Arts of Design.** [13]
The conflict between the "cultivated" and "vernacular" styles. The development of an American aesthetic in technology, architecture, fine arts, literature, and other arts. Professor Kouwenhoven. Tu 3:35-5:25.
- [§85. **Modern British and American Poetry.**
Professor Ulanov. Not given in 1971-72.]
86. **Drama from Ibsen to the Present.** [9]
Reading of English, Continental, and American plays, of which the most important will be analyzed in class. Professor Ulanov. Tu Th 2:10-3:25.
- [87. **Major American Writers and Their Foreign Sources.**
Professor Tilton. Not given in 1971-72.]
- §88. **The Modern Novel.** [5]
Works by James, Conrad, Lawrence, Joyce, and Forster. Professor Morse. M W F 2:10.
90. **The English Language: History and Use.** [2]
An introduction to the history of words, pronunciation, and structure in the light of literary tradition and linguistic science. Professor Norman. M W F 10.
- 93 (or 93y). **Literary Criticism: Analysis and Evaluation.** [0]
The purpose of the course is to provide experience in the reading of literary texts and some knowledge of conspicuous works of literary

criticism. Frequent short papers. Registration in each section is limited. Students must file departmental registration forms with Professor Rosenberg (401A Barnard Hall) before completing their programs.

All English majors are required to take Course 93 (or 93y) before the end of the junior year. Sophomores are encouraged to take it in the Spring Term before they officially declare their major. Transfer students should plan to take 93 in the Autumn Term.

Professors Robertson, Rosenberg, Tilton, Morse, Henderson, Kurrik, and Stimpson. Section I Tu 3:35-5:25. Section II W 3:10-5. Section III Th 3:35-5:25.

96. Independent Work.

Students who wish to prepare a senior essay on an individual basis instead of taking Course 98 should consult Professor Tilton (419 Barnard Hall) before registering. Professors Tilton and Morse. Hours to be arranged.

97, 98. Studies in Literature.

[0]

Open to majors and nonmajors. These seminars provide opportunities for intensive study of subject matter to which students have already been introduced in other courses. Registration in each section is limited, and the written permission of the instructor is required. Departmental registration forms must be filed with Professor Tilton (419 Barnard Hall).

All English majors who elect advanced work in literature, rather than in writing or speech, are required in the senior year to take one section of 97 and one of 98. Other students will be admitted to the seminars if the section lists have not been filled.

97. (Autumn Term)

I. The Renaissance.

A study of the theory that "art imitates nature" with special reference to works by Sidney, Spenser, Shakespeare, Donne, Herbert, and Milton. Professor Rosenberg. Th 3:35-5:25.

II. The Eighteenth Century.

The uses of wit: satire and humor in the writings of Congreve, Swift, Fielding, Goldsmith, Johnson, and Sterne. Professor Henderson. Th 3:35-5:25.

III. Romanticism.

The study of a major work by each of four poets: Blake, Wordsworth, Byron, and Shelley. Professor Tilton. W 3:10-5.

IV. American Literature (1880-1950).

The rite of initiation in works by Mark Twain, James, Crane, Fitzgerald, Ellison, McCullers, Bellow, and a number of poets. Miss Royer. W 3:10-5.

98. (Spring Term)

V. The King James Bible.

An examination of the language of the King James Bible with particular attention to literary form and to passages that have exerted a major influence on English literature. Professor Kivette. W 3:10-5.

VI. Studies in Tragedy.

The reading of tragedies in conjunction with important theories of tragedy: Greek, Elizabethan, French classical tragedy, and some modern works; Aristotle, Nietzsche, Frazer, Freud, and Artaud. Miss Dalton. Tu 3:35-5:25.

VII. Studies in the Novel: Subjectivity and Authority.

An examination of the novel with emphasis on problems of subjectivity, fictional authority, and genre theory; its reputation among writers and critics in the past and its position in the critical pluralism of the present. Professor Kurrik. Tu 3:35-5:25.

VIII. Film and Word.

The influence of literature on films, films on literature; the use of the script; some study of the grammar of the film. Professor Stimpson. Th 3:35-5:25.

IX. The Teaching of English.

The place of English in the curriculum and the role of the English teacher; grammar, composition, literature, testing, and grading. Primarily for students in the Education Program. Professor Prescott. W 3:10-5.



<i>Professors</i>	Helen Phelps Bailey, LeRoy C. Breunig, Maurice Z. Shroder ¹
<i>Associate Professors</i>	Serge Gavronsky, ² Renée Geen (Chairman, 305 Milbank Hall), Tatiana Greene
<i>Assistant Professors</i>	Danielle Haase-Dubosc, Hermine Riffaterre, Domna Stanton
<i>Lecturer</i>	Patricia Terry
<i>Instructors</i>	Eva Corredor, Hervé Denis, Kathleen Micklow, Sylvie Sayre, Lynda Snead

¹ Absent on leave, Spring Term.

² Absent on leave, 1971-72.

Courses in the French department have a twofold objective: to perfect fluency in the written and the spoken language; and to develop an understanding and appreciation of the literature and culture of France.

New students who have already given evidence of advanced training in French may automatically be exempted from the language requirement. All other new students who intend to satisfy their requirement in French will, depending upon their preparation, be placed immediately in the appropriate language course or be asked to take a placement test, offered at the start of each semester. Those receiving a sufficiently high grade will fulfill the requirement. The others may do so by completing French 4.

Students who have satisfied the language requirement can take literature courses conducted entirely in French (Course 20x, 20, 21-22, 23-24, 25-26); courses in which the readings are in French, but with lectures, discussions, and papers in English (47, 48); and advanced language Course 6.

The student majoring in French will plan her program to include the following: either Courses 21 and 22, 23-24, or 25-26; two of the language courses 12, 13, 14, 16; four one-term literature courses numbered 31-44; two one-term seminars numbered 51-54. Students with honor grades may elect Course 59-60, senior thesis.

The program may include additional courses in French literature or in other subjects which vary with the interest of the student. Majors who plan to do graduate work are encouraged to acquire a reading knowledge of Latin or German.

There are two departmental examinations: the Junior French Test (a short-answer examination on literary history, literary terminology, and translation) and the Major Examination (a critical essay on a prepared question and an individual oral *explication de texte*).

Language Courses All courses are conducted in French.

- 1-2. **Elementary Full-Year Course.** [14]
Grammar, reading, composition. Work in the language laboratory is required. Mrs. Corredor (course chairman) and Mrs. Sayre. Section I M Tu W Th F 9. Section II M Tu W Th F 10.
- 2x. **Review of Elementary French.** [14]
Oral and written review of basic grammar and syntax. Reading in modern literature, oral practice, free composition, translation. Work in the language laboratory is part of the course. Primarily for students who need further instruction to qualify for the intermediate course. Professor Greene (course chairman) and Members of the Department. Section I M W F 10. Section II M W F 11. Section III M W F 12:10. Section IV Tu Th 10:35-11:50.
3. **Intermediate Course.** [14]
Grammar and syntax. Reading in modern literature, oral practice, free composition, translation. Work in the language laboratory is part of the course. Prerequisite: Course 1-2, Course 2x, or an appropriate score on the placement test. Professor Stanton (course chairman) and Members of the Department. Section I M W F 10. Section II M W F 11. Section III M W F 12:10. Section IV M W F 1:10. Section V Tu Th 10:35-11:50.
- 3y. **Intermediate Course.** [14]
The equivalent of Course 3 but given in the Spring Term. Professor Bailey (course chairman) and Members of the Department. Section I M W F 10. Section II M W F 11. Section III M W F 12:10. Section IV Tu Th 10:35-11:50.
4. **French through Literary Analysis.** [14]
The study of literary texts from Pascal to Rimbaud as a basis for improving the comprehension of written and spoken French. Work in the language laboratory is part of the course. Prerequisite: Course 3 or an appropriate score on the placement test. Professor Haase-Dubosc (course chairman) and Members of the Department. Section I M W F 10. Section II M W F 11. Section III M W F 12:10. Section IV M W F 1:10. Section V Tu Th 10:35-11:50.
- 4x. **French through Literary Analysis.** [14]
The equivalent of Course 4 but given in the Autumn Term. Professor Haase-Dubosc (course chairman) and Members of the Department. Section I M W F 9. Section II M W F 10. Section III M W F 11. Section IV M W F 12:10. Section V M W F 1:10. Section VI Tu Th 9:10-10:25. Section VII Tu Th 10:35-11:50. Section VIII Tu Th 2:10-3:25.
- 6x. **Composition and Conversation.** [0]
Weekly compositions designed to improve writing skill. Review of grammar and syntax. Pronunciation, recitation, conversations based on selected readings. Work in the language laboratory is part of the course. Prerequisite: Course 4 or a satisfactory score on the placement test. Limited to 15 students. Professor Riffaterre. M W F 1:10.
- [11]. **Advanced French Grammar.** Not given in 1971-72.]
- [12]. **History of the French Language.** Not given in 1971-72.]
13. **Advanced Composition and Explication.** [0]
Free composition on various themes; practice in methods of

explication de texte. Nonmajors may take the course with permission of the instructor. Professor Haase-Dubosc. M W F 1:10.

14. Advanced Translation. [0]

Translation of various styles of prose and poetry from French to English. Nonmajors may take the course with permission of the instructor. Dr. Terry. M W F 12:10.

16. Advanced Oral French. [0]

Study of spoken French. Practice in pronunciation and intonation through conversation and oral *explications de texte*. Work in the language laboratory is part of the course. Nonmajors may take the course with permission of the instructor. Professor Riffaterre. M W F 10.

Literature Courses

For nonmajors, courses marked thus § will count toward the general college requirement. All Barnard courses are conducted in French except Courses 47 and 48.

§20. Special Themes in Modern French Literature.

Reading and discussion in French of selected works of contemporary interest. Textual analyses and essays. Each section will examine one of the following themes:

I. The Nouveau Roman. [2]

The radical transformation of French fiction in the mid-twentieth century as illustrated by the works of Robbe-Grillet, Butor, and Nathalie Sarraute. Mrs. Corredor. M W F 10.

II. Dreams, Visions, Incantation, and Exorcism. [3]

A study of the twentieth-century imagination in its relation to literature. Among the writers studied will be Rimbaud, Lautréamont, Artaud, Ghelderode, Supervielle, Michaux, Cocteau, Jarry, Breton. Dr. Terry. M W F 11.

III. Feminism. [12]

The role and struggle of women as seen by authors of the nineteenth and twentieth centuries. Readings from feminist authors and analyses of various literary idealizations of women. Authors include Michelet, Proudhon, Flora Tristan, Zola, Maupassant, Mauriac, Saint-Exupéry, Christiane Rochefort, Nathalie Sarraute, Simone de Beauvoir. Mrs. Sayre. M W F 12:10.

IV. The Writings of French Painters. [4]

Selections from Delacroix to Dubuffet. A study of the artist's views on art, aesthetics and his contemporary world. Professor Haase-Dubosc. M W F 1:10.

V. The Black Experience. [6]

A study of negritude in the works of Haitian and African writers, stressing the themes of love, death and political commitment. Mr. Denis. Tu Th 9:10-10:25.

§20x. Special Themes in Modern French Literature.

The equivalent of Course 20 but given in the Autumn Term.

I. The Language of Poetry. [2]

Tradition, freedom, and variety in poetic expression in the 19th and 20th centuries. Readings in Hugo, Baudelaire, Verlaine, Rimbaud, Valéry, Apollinaire, and the Surrealist poets. Professor Greene. M W F 10.

II. Portrait of the Artist in Modern French Literature. [3]

A study of the nature, problems and goals of the artist, his relation to society and politics, as depicted in various literary genres from 1850 to the present. Authors include Baudelaire, Verlaine, Apollinaire, Proust, Gide, Cocteau, Camus, Sartre, Sarraute and Ionesco. Professor Stanton. M W F 11.

III. The Individual and Society. [9]

A study of the individual at odds with the social environment as portrayed in novels by Chateaubriand, Vigny, Stendhal, Balzac, Flaubert, and Zola. Professor Bailey. Tu Th 2:10-3:25.

§21, 22. Masterpieces of Literature from the Middle Ages to the Twentieth Century. [14]

An examination of the scope and variety of French literature through analyses of the most significant works and currents from the Middle Ages to the twentieth century. Lectures, discussions and close textual analyses. Autumn Term: Medieval, Renaissance and Classical Literature. Spring Term: the Age of Enlightenment, Romanticism, Realism and Symbolism. Prerequisite: satisfaction of the foreign language requirement in French. French 21 may be taken for credit *without* completion of French 22. Professors Haase-Dubosc, Riffaterre (course chairman, Spring Term), and Stanton (course chairman, Autumn Term). Section I M W F 10. Section II M W F 11.

§21y. Masterpieces of Literature from the Middle Ages to the Twentieth Century. Part I. [3]

The equivalent of Course 21 but given in the Spring Term. Professor Stanton. M W F 11.

§22x. Masterpieces of Literature from the Middle Ages to the Twentieth Century. Part II. [4]

The equivalent of Course 22 but given in the Autumn Term. Mrs. Sayre. M W F 1:10.

[§23-24. The Culture and Institutions of France. Professor Gavronsky. Not given in 1971-72.]**[§25-26 French Historical Prose. Not given in 1971-72.]****§31. The Middle Ages. [3]**

Realism and idealism in medieval literature from *La Chanson de Roland* through François Villon: love, war, and the concept of the good life. Some of the texts will be read in Old French; others in modern translations. Prerequisite: Course 21, 22, 23-24, 25-26, 32, or permission of the instructor. Dr. Terry. M W F 11.

[§32. Renaissance, Baroque and Classical Poetry. Not given in 1971-72.]**§33. Renaissance and Classical Prose. [1]**

A study of the prose writers of the sixteenth and seventeenth centuries with emphasis upon Rabelais, Montaigne, Descartes, Pascal, Madame de LaFayette. Prerequisite: the same as for French 31. Professor Greene. M W F 9.

[§34. The French Theatre of the Seventeenth Century. Not given in 1971-72.]

- [§35. **The French Theatre of the Eighteenth and Nineteenth Centuries.**
Not given in 1971-72.]
- [§36. **Eighteenth Century (II).** Not given in 1971-72.]
- [§37. **Nineteenth Century French Poetry.** Not given in 1971-72.]
- §38. **The Nineteenth Century French Novel.** [9]
Fiction from the pre-Romantic period to the eve of the First World War, including works by Chateaubriand, Constant, Stendhal, Balzac, Flaubert, Zola, and Proust. Prerequisite: the same as for French 31. Professor Bailey. Tu Th 2:10-3:25.
- §39. **Twentieth-Century French Fiction.** [9]
The theory and the forms of the novel and other prose genres. Readings will include works by Gide, Malraux, Sartre, Camus and the *nouveaux romanciers*. Prerequisite: the same as for French 31. Professor Shroder. Tu Th 2:10-3:25.
- §40. **Twentieth-Century French Theatre.** [3]
Tradition and innovation in the major French dramatists from Jarry and Apollinaire to Ionesco and Arrabal. Prerequisite: the same as for French 31. Professor Geen. M W F 11.
- [§42. **Materials and Techniques of French Poetry.**
Not given in 1971-72.]
- §44. **French Women Writers.** [6]
A literary and cultural study of poets, prose writers, and influential groups, with emphasis on: Marguerite de Navarre, Louise Labé, the "Précieuses," Madame de Sévigné, Madame de LaFayette, the eighteenth-century *Salons*, Madame de Staël, Marceline Desbordes-Valmore, George Sand, Colette, Simone de Beauvoir. Prerequisite: the same as for French 31. Professor Greene. Tu Th 9:10-10:25.
- §47. **Flaubert and Joyce.** [7]
Selected works of the two "novelist's novelists," considered in terms of the problems of modern fiction: the growth and transformation of the novel, the aesthetics of realism and symbolism, and the effort to fuse substance and style. Readings in French and English; lectures, discussions, and papers in English. Professor Shroder. Tu Th 10:35-11:50.
- §48. **Baudelaire, Mallarmé, Rimbaud.** [7]
Lectures and analyses of texts with emphasis on the poetics as they influence modern poetry. Readings in French; lectures, discussions, and papers in English. Professor Breunig. Tu Th 10:35-11:50.

Seminars The number of students in each seminar is limited and written permission is required in advance of registration period.

51. **Diderot.** Professor Geen. M 2:10-3:50. [0]
52. **Baroque and Classical Visions.** [0]
Professor Haase-Dubosc. M 2:10-3:50.
53. **From Baudelaire to Surrealism.** [0]
Professor Riffaterre. W 2:10-3:50.

54. **Stendhal.** Professor Bailey. W 2:10-3:50. [0]

59-60. **Senior Thesis.** [0]

Research into a precise topic of French literature and the preparation of a long essay. Open to seniors with honor grades. Students electing Course 59-60 take three one-term literature courses numbered 31-44 and one seminar; they are excused from the written major examination, and the thesis defense constitutes the oral section. Course 59 or 60 may be taken alone with special permission. Professors Bailey and Greene. Hours for consultation to be arranged.

Graduate Courses The following graduate courses are given in English by members of the Barnard French Department. They are open to undergraduates only by written permission of the instructor. French majors may take them in addition to, but not in lieu of, the four literature courses and the two seminars as set forth in the major requirements.

G4501x. **French Literature of the Nineteenth Century: the Novel.**
Professor Shroder. F 10-11:50.

[G4603x. **French Poetry in the Twentieth Century.**
Professor Breunig. Not given in 1971-72.]

[G6705x. **The Aesthetics of Modern Fiction.**
Professor Shroder. Not given in 1971-72.]

Study Abroad

C3991x-C3992y. **Supervised Study in France.**

Special study under the supervision of the Director of Studies of Reid Hall in Paris. This normally involves work in an individually arranged program of courses given by various branches of the University of Paris, which may include the *Institut des Professeurs à l'Etranger*, the *Institut d'Etudes Politiques*, the *Ecole du Louvre*, and others. Prerequisite: Written permission of the major adviser and the chairmen of both the Barnard and Columbia College French Departments.

C3997x-C3998y. **Supervised research.**

Normally this course is open only to students in consultation with and under the supervision of the Director of Studies of Reid Hall in Paris and involves individual work with an established specialist in the student's major field. Prerequisite: the same as for C3991x-C3992y.

Professor Leonard Zobler (Chairman; 334 Milbank Hall)

Instructor Garrett A. Smith, Jr.

Lecturer Beverly Moss Spatt

Assistant Toby Berger

Officers of Columbia University offering courses open to
Barnard students:

Professor William A. Hance

Associate Professors Robert A. Lewis, Kempton Webb

Assistant Professors Michael Greenberg, John E. Oliver, Ian R. Manners

Instructor Ralph Fields

Geography

The central questions of contemporary geography spring from its total view of the earth as a habitat for man. What are the relations between the locations of the natural features of the earth's surface and man's cultural and economic activities? Can homogeneous regions, large and small, be identified and how do they evolve? Why do cities locate where they do, grow to certain sizes, develop peculiar structures, perform unique functions, and relate to one another in ways that link them into systems of cities? When are natural resources conducive or restrictive for growth and change and does the role of nature differ in advanced or emerging societies?

In pursuit of the answers to these questions, and others, geographers examine the behavior of man-environment spatial systems at different times and in different places. An understanding of the dynamics of the interactions among man, resources, and space suggests ways for anticipating and ameliorating contemporary environmental problems and planning for the future. Geographers thus are involved deeply in regional and urban planning in both developed and underdeveloped regions.

A knowledge of earth science and social science is an essential part of geographic training. Geography 1, 2, 4, and a year seminar (59, 60) are required. During the seminar a senior essay is prepared, usually based on original field research. The remainder of the major is tailored to the student's interests, which usually are along one of the following paths: natural resources, specialization in a region, as Africa, Latin-America, or Anglo-America, or a substantive field as urban geography, agriculture, manufacturing, location theory or physical geography.

In the place of a major examination each student in the senior seminar (59, 60) will prepare an essay.

Environmental Conservation and Management

Conservation is concerned with man's stewardship of the earth as his home and the proper management of its resources. The particulars of this program will be found on page 56 under **Interdepartmental Offerings**.

Geography

1, 2. Environmental Science.

The natural environment of man viewed as the fusion of spatially interacting processes, cycles, and forms close to the earth's surface. Environmental modifications and deteriorations caused by pressures of urbanism, technology, and population. Autumn Term: disturbances of natural equilibria induced by human settlement patterns and activities on air, water, soil, landform, open space, biota, and on man himself. Remedial measures and conservation issues. Spring Term: ecosystem analysis of pristine and altered biomes, natural resource-using systems of agro-industrial society and their degenerative feedbacks. Ecologic surveying for town, country, and regional planning for environmental stability. The city as a unique habitat and elements of man-designed environments. Lectures are given jointly with Columbia College. Permission for laboratory assignment required. Professors Manners, Oliver, Zobler. Lec. Tu Th 12. Lab. M 2:10-5, Tu 9-11:50, W 2:10-5, Th 9-11:50; 2:10-5.

[3. Agricultural Development and Agrarian Societies.

Professor Zobler. Not given in 1971-72.]

4. Ecology of Urban-Industrial Society.

The geographic and technologic correlates of urban-industrial society. The restructuring of an agrarian economy under the impact of the industrializing process. Rural-urban population flows, raw material inputs, manufactural and transport patterns, regional growth and world urbanization, city structure and central place systems, and environmental change viewed as elements in an industrial ecosystem. Metropolitan area planning in developed and emerging nations examined as case studies. Hours to be arranged.

[31. Environmental Policy. Not given in 1971-72.]

[32. Transportation and Land Use. Not given in 1971-72.]

33. Environmental Planning and Perception.

[4]

Introduction to planning theory and practice with an emphasis on the contemporary environmental problems of urban life and growth. Special topics include housing, waste disposal, land use, open space, neighborhoods, and citizen participation and confrontation. Examples taken from New York City and new towns. Permission of the instructor required. Mrs. Spatt. F 1:10-3.

[W4011x. Pedology and Soil Resources. Not given in 1971-72.]

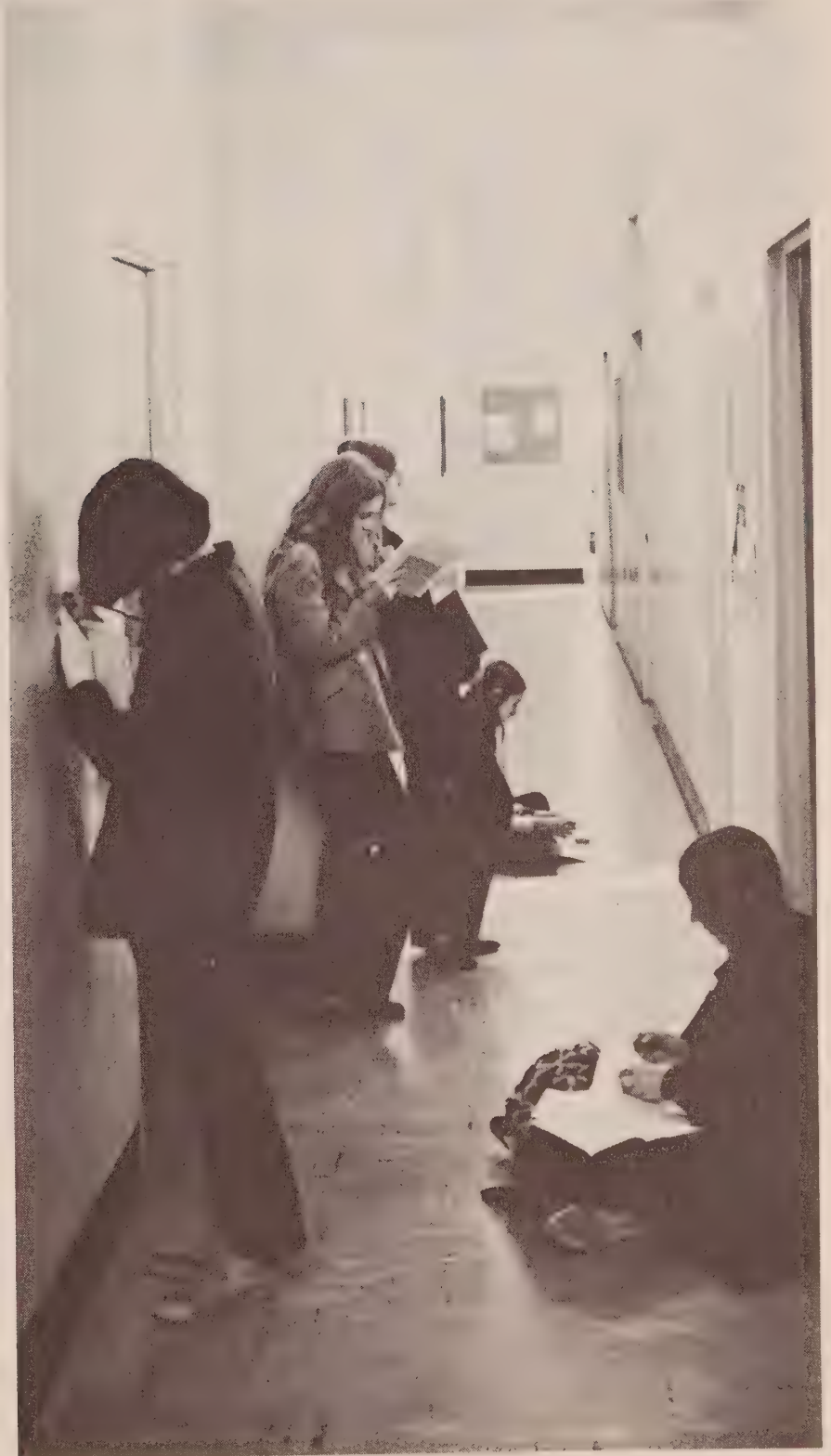
W4012x. Hydrology and Water Resources.

Hydrologic cycle analysis and its application to water management. Introduction to the principles and instrumentation of surface and ground water flows. Resource planning for potable supplies, waste disposal, and recreational uses in metropolitan and rural areas. Case studies, two one-day field trips, and occasional laboratory sessions. Given alternately with W4011x. Professor Zobler. Tu 3:10-5, Th 3:10-4.

- W4014y. Conservation Theory and Environmental Management.**
Impact of ecosystem analysis and conflicts over environmental quality control on conservation theory. The role of economic, political, managerial, perceptual, and scientific factors in shaping decision criteria for allocating natural resources. Ecologic survey methods for environmental planning: parks; unique habitats; agricultural, commercial, and industrial locations; pollutional effluents; and open space in metropolitan areas. Case study reports and several one-day field trips. Permission of the instructor required. Professor Zobler. Tu Th 3:10-4.
- C3020y. Principles of Economic Geography.**
A systematic analysis of the distribution of resources, industries and population in relation to physical, economic, technological and other factors. Resource-use planning and the principles of economic location and regional development. Professor Greenberg. M W 11-12:15.
- W4018y. Cartography.**
The use of maps for illustrative and statistical purposes, as point, line, and area symbols, and for geographic analysis. A survey of photogrammetry and remote sensing, and of modern map production methods. Experience in cartographic drafting, compilation, design, and evaluation. Use of aerial photographs in mapping and as map supplements. Lab. fee \$5. Permission of the instructor required. . . . F 1:10-4.
- [W3101y. **Anglo-America.** Professor Greenberg. Not given in 1971-72.]
- [C3200y. **Economic Geography of Latin America.**
Professor Webb. Not given in 1971-72.]
- [C3040x. **Urban Geography.** Not given in 1971-72.]
- [W3403y. **Economic Geography of the U.S.S.R.** Not given in 1971-72.]
- [W3500x. **African Problems and Potentialities.**
Professor Hance. Not given in 1971-72.]
- C3019x. Problems of Developed and Underdeveloped Areas.**
Introduction to the theory and methodology of economic and regional geography through the analysis of problems of developed (Western European) and underdeveloped (African) areas. Topics include: population, resources, infrastructural and sectoral studies, regional development, integration and disintegration, and urban problems. Professor Hance. M W 11-12:15.
- C3050y. World Population Problems.**
Population growth and distribution and their interaction with society. Growth of population and its interrelationship with population policy, cultural values and practices, type of economy, food supplies, resources, economic development, political power, and the natural environment. Professor Lewis. Tu Th 11-12:15.
- W4025y. General Climatology.**
Introduction to the physical processes of the atmosphere and their application to studies in regional and applied climatology. Laboratory work: analysis of climatic data. Professor Oliver. Tu 4:10-6.
- 59, 60. Seminar in Geography.** [0]
Readings, discussions, and reports on various topics from the research literature. Preparation of the senior essay. Required of senior majors. Professor Zobler. Hours to be arranged.

Graduate Courses

Certain graduate courses given in the University are open to qualified majors with the consent of the department and the major adviser. These courses are described in the Bulletin of the Graduate School of Arts and Sciences.



<i>Professor</i>	John E. Sanders (Chairman; 328B Milbank Hall) Officers of Columbia University offering courses open to Barnard students:
<i>Professors</i>	Roger L. Batten, Wallace S. Broecker, Rhodes W. Fairbridge, Paul W. Gast, ¹ Ralph J. Holmes, John T. F. Kuo (Henry Krumb School of Mines), John E. Nafe, ¹ Manik Talwani
<i>Associate Professors</i>	Ian Dalziel, Arnold L. Gordon, James D. Hays, Bruce C. Heezen, Peter J. M. Ypma
<i>Assistant Professor</i>	Robert Kay
<i>Adjunct Professors</i>	S. I. Rasool, Uri Shafrir

¹ Absent on leave, 1971-72.

Geology

Geology deals with the study of the earth, applying various aspects of all modern sciences, especially chemistry, physics, and biology. The central theme of geology involves the many interwoven reactions which constitute the geologic cycle. The geologic cycle results from the effects of solar energy on the earth and on the organisms inhabiting the earth. In addition, the cycle depends on internal energy from the earth itself, which powers various igneous and tectonic processes. Geology is concerned with an understanding of how the operations of the geologic cycle in various environments through time have shaped the earth's surface and have created the geologic record. In the geologic record are preserved a decipherable history of past environments and of the progression, through time, of the populations of organisms that have inhabited the earth. A pressing modern concern of geology deals with the interactions between man's technologic cycle and the natural geologic cycle.

The first year of study may be selected from among three sequences: (1) a broad, general introductory course (W1021x, W1022y), (2) an introductory course emphasizing ocean science (W1031x) and planetary geology (W1032x), or (3) an introductory course emphasizing man's physical environment (W1041x). A year's work satisfactorily completed in any of the sequences fulfills the laboratory science requirement. With permission of the department a student may enter advanced courses in geology after completing one of these sequences.

Students having extensive preparation in mathematics, physics, and chemistry who desire to apply these disciplines to the study of the earth should enroll in W1051x and W1052y.

Major programs include three options: Option A: pre-professional preparation in non-biologic aspects of geology; Option B: pre-professional preparation in biologic aspects of geology;

Option C: Earth Science major, including selected fields of study within geology and physical geography. Geologic concentration in problems of the coastal zone is also possible in Barnard's interdepartmental program on Environmental Conservation and Management.

Students electing any of the major options will take a sequence of courses which will be worked out in consultation with their major adviser. Majors in geology should plan to spend at least one summer in geologic mapping at an approved geologic field camp, in research activities at an oceanographic institution, or as a participant in an approved field research program being carried out elsewhere.

There is no major examination, but a satisfactory research paper prepared in conjunction with a senior seminar is required.

Students contemplating graduate study in geology should plan their programs to include a reading knowledge of two modern foreign languages (German, French or Russian generally), and a year course in chemistry, physics, and mathematics (including calculus for students choosing major Option A, and statistics for major Option B).

Environmental Conservation and Management

Conservation is concerned with man's stewardship of the earth as his home and the proper management of its resources. Students in the interdepartmental program in Environmental Conservation and Management who desire to concentrate in coastal studies are required to take as electives Geology W4226y, Environmental Conservation and Management 48, and TK 4802 (Teachers College), and to carry out their research in some coastal project. The core courses and further particulars of the program are found on page 56 under **Interdepartmental Offerings**.

W1021x. Physical Geology.

The composition and structure of the earth, the internal and external forces acting upon it, and the surface features resulting. Laboratory includes study of common rocks and minerals, of contour maps as means of depicting the earth's morphology, and of geologic maps to infer the subsurface structure of the earth's crust, and two field trips to local geologic features. Professor Sanders and staff. Lec. M W F 10; Lab. (3 hours) Sections: (1) M 2:10-5; (2) Tu 9-11:50; (3) 2:10-5; (4) W 2:10-5; (5) Th 9-11:50; (6) 2:10-5.

W1022y. Historical Geology.

The history of the earth and of the life upon it from the beginning to modern times. The laboratory and assigned work include study of invertebrate fossils and of geologic maps and structures, museum trips, short field trips, and a required one-day field trip. A research

paper on a geologic topic is due early in May. Prerequisite: W1021x. Professor Sanders and staff. Lec. M W F 10. Lab. (3 hours) Sections: (1) M 2:10-5; (2) Tu 9-11:50; (3) 2:10-5; (4) W 2:10-5; (5) Th 9-11:50; (6) 2:10-5.

W1031y. Ocean Science.

Interaction of man and the sea. Marine, geological, chemical and biological sciences and their relation to the sea as a food source and as a waste sink. The impact of man on the ocean system. The record of oceanic events in the sediments as a tool for extending Interaction studies over long periods of time. Relationship of oceanic processes to climate and weather. Laboratories will deal with some of the current techniques used in ocean research. Recommended preparation: high school physics, chemistry and mathematics. Professor Hays. Lec. Tu Th 9. Lab. hours to be arranged.

W1032x. Planetary Geology.

New perspective on the earth derived from recent observations of the Moon, Mars, Venus, and meteorites. Evolution of the morphologies and atmosphere of these objects. The bearing of new data on some long-accepted views of earth history. The role that geologic processes have in determining the conditions of life on the planet Earth. The genesis of oxygen in Earth's atmosphere and the creation of oceans on the Earth's surface. Laboratories will deal with photographic, seismic, chemical and other techniques used for planetary studies. Recommended preparation: some background in high school physics, chemistry and mathematics. Professor Lec. M 9-11; W 10-11. Lab. hours to be arranged.

W1041x. Man's Physical Environment.

Processes taking place in the earth's lithosphere, hydrosphere and atmosphere which bear on man's attempt to cope with his environment. Topics such as pollution control, weather modification and earthquake prediction will be considered. Lectures deal with global aspects of these problems and laboratories with the urban aspects. Emphasis is placed on the role of the scientist; an attempt is made to integrate the economic, political and sociological implications. Recommended preparation: some background in high school physics, chemistry and mathematics. Professor Broecker. Lec. M W 6:10-7:25. Lab. hours to be arranged.

W1051x. Principles of Geology, I.

Materials, forms, structures and processes that occur at the earth's surface. Development of the earth's surface in time. Geology as a factor in determining man's physical environment. Occasional lectures by research scientists on subjects of current interest. Prerequisite: high school chemistry, physics and mathematics. Corequisite: a term of physics or chemistry. This course is prerequisite for advanced undergraduate geology courses. To be taken together with Geology W1052 in either order, with permission of the instructor. Professor Heezen. Tu Th 4:10. One 2-hour laboratory-conference a week and field trips to be arranged.

W1052y. Principles of Geology, II.

Materials, forms, structures and processes that occur within the earth. Endogenetic processes that governed the earth's development in time. Reaction rates and equilibria within the earth's crust. Occasional lectures by research scientists on subjects of current interest. Prerequisite: high school chemistry, physics and mathe-

ematics. Corequisite: a term of physics or chemistry. Professor Heezen. Lec. Tu Th 4:10. One 2-hour laboratory-conference period a week and field trips to be arranged.

W3045x. Elements of Structural Geology.

Training in the recognition and interpretation of geologic structures both in the field and on geological and topographical maps. Pre-requisite: Course W1051x, W1052y, or permission of the department; W4113x, W 4114y. Professor Dalziel. Tu Th 11. Lab. Tu 2:10-5. Field work to be arranged. To be given in alternate years; not to be given 1972-73.

W3522y. Exploration Geology and Mining Geophysics, I.

The geological environment of mineral deposits and their structural control. Ore genetical principles as a guide to mineral deposits. Geochemical and geophysical anomalies related to mineral deposits, their detection and interpretation. Prerequisite: W1051x, W1052y, or W4007. Professors Ypma and Kuo. M W F 10.

W3902y. Introduction to Geophysics.

Application of basic scientific principles to the study of the form, properties and history of the earth. Prerequisite: Physics to C1004 level and permission of the instructor. Professor Talwani. Tu Th 11-12:30. Given in alternate years; not to be given in 1972-1973.

W4008x. Introduction to Atmospheric Science.

Observational data concerning the atmosphere; radiative, convective and turbulent processes; equations of motion of geophysical fluid dynamics; general circulation and thermal structure of the atmosphere; physics and dynamics of clouds; meteorological satellite and new observation systems. Open to seniors majoring in one of the physical sciences. Professors Rasool and Shafrir. M W 9-10:30.

W4113x. Elements of Mineralogy and Crystallography — Nonsilicates and Ore Minerals.

Crystallography, including principles of symmetry, internal structure of crystals, coordination, bonding, and external crystal form. Physical properties, occurrence, mode of origin, and the economic and geologic significance of the ore minerals and the nonsilicates of economic or geologic importance. Application of physical properties and chemical tests in the recognition of minerals. Given in sequence with Geology W4114y. Prerequisite: Geology W1051x, W1052y, and elementary college physics, and chemistry, or permission of the instructor. Professor Holmes. Tu Th 11. Lab. Tu 1:10-4.

W4114y. Elements of Mineralogy and Crystallography — Silicates and Rock-Forming Minerals.

Physical properties, occurrence, mode of origin and geologic significance of the more important silicates and other rock-forming minerals. Application of physical properties and chemical tests in the recognition of minerals. Given in sequence with Geology W4113. Prerequisite: W1051x, W1052y, W4113x, elementary physics and chemistry, or permission of the instructor. Professor Holmes. Tu Th 11. Lab. Tu 1:10-4.

W4120y. Analytical Mineralogic Techniques.

Analytical methods for mineral identification and study, including the polarizing petrographic microscope, the reflecting polarizing microscope, x-ray diffraction (both powder and single crystal methods), x-ray fluorescence, and differential thermal analysis.

Prerequisite: Course W4113x and W4114y or equivalent. Professor Holmes. Tu Th 10. Lab. Th 1:10-3.

W4327x. Principles of Geomorphology.

Lectures, map study, and readings on geomorphic principles. The origin of surface features of the earth as controlled by the interaction between geologic structures and erosional processes. Prerequisite: one year of geology. Professor Fairbridge. M W F 1:10. Lab. W 3:10-5.

W4009x. Chemical Geology, I. Atomic Structures and Physical Properties of Solids.

Atomic theory, bond theory, lattice types, the interaction of electromagnetic waves and solids; x-ray crystallography, crystal chemistry of common oxides, sulfides and rock-forming minerals. Prerequisite: W4113x or its equivalent, or permission of the instructor. Professor Ypma and associate. Lec. M W 11-12:30. Lab. M 1:10-2:30.

W4010y. Chemical Geology, II. Fundamental Concepts in Chemical Equilibria and Petrology.

Thermodynamical properties of solids, stable and unstable isotopes, statistical mechanics of geological processes, phase equilibria involving solids and liquids, sulfides, carbonates, and rock-forming minerals. Prerequisite: W4009x or permission of the instructor. Professors Broecker and Kay. Lec. M W 10:30-12. Problem Session 1 hour a week, to be announced.

[W4661x. Introduction to Paleontology.

Professors Batten and Hays. Given in alternate years. Not given in 1971-72.]

W4226y. Marine Sedimentology.

Theory and techniques of modern marine sedimentology, including processes associated with deposition and diagenesis. Prerequisite: W4113x, W4114y, W4661x, and one term of college chemistry. Expenses: \$10. Professor Sanders. Lec. W F 1:10. Lab. W 2:10-4.

W4701x. Introduction to Petrology.

The classification and genesis of igneous, sedimentary, and metamorphic rocks. The major rock types will be examined in hand specimens and under the microscope. Prerequisite: W1051x, W1052y and elementary knowledge of physics and chemistry. Professor . . . W F 12. Lab. two hours to be arranged.

W4927x. Introduction to Oceanography.

Properties of sea water; water masses and their distribution; sea-air interaction influence on the ocean structure; basic oceanic circulation pattern; relation of diffusion and advection with respect to distribution of ocean elements; measurement techniques and methods of data processing and analysis. Professors Gordon and Broecker. Lec. & Lab. Tu Th 6:30-8 p.m.

60. Seminar in Geology.

[0]

A seminar course with discussions, problems, and readings on various problems in geology. Prerequisite: a year of geology. Required of senior majors. Professor Sanders. Hours to be arranged.

Columbia Courses

The following courses are open to qualified students with the permission of the Barnard chairman. Courses in brackets are given only in alternate years, and will not be given in 1971-72.

- W3048y. Introduction to Field Geology.
[W4030y. Climatic Change.]
[W4049x. World Regional Geology.]
[W4053x. Geology of the New York Region.]
W4411x. Principles of Structural Geology.
W4941x. Principles of Geophysics.
W4883x. Principles of Geochemistry.
W4521x. Exploration Geology and Mining Geophysics.
TK4802. (Teachers College). Coastal Oceanography.
G4226y. Biostratigraphy.



Associate Professors Brigitte L. Bradley¹ (Chairman; 320B Milbank Hall), Gertrud M. Sakrawa

Assistant Professor Frederick G. Peters

Instructor Elisabeth McLaughlin

¹ Absent on leave, Spring Term.

The courses in the German Department are designed to develop proficiency in all the language skills, to present the German cultural and literary tradition in its European context, and to study the works of important German, Austrian, and Swiss writers. The literature courses taught in German are open to all students who have completed German 4, 4x, or the equivalent. For students who do not know German the department offers a series of courses in German literature in English translation. A student majoring in German will aim at fluency in the language and at a fundamental understanding of the intellectual currents and literary developments in the German speaking countries. In consultation with her major adviser she will plan a program which includes German 5 (or the equivalent) and eight literature courses, one of which to be a colloquium. In addition, she may select subjects from other fields in accordance with her own special interests. Students interested in a major in German are urged to consult with the department as early as possible to work out an accelerated language program.

The major examination consists of a three-hour written section (in English) and of an individual oral exam of a half hour (in German). The senior essay (Course 62) will replace the written section.

Students who elect German as part of a combined major will work out their special program in consultation with the departments concerned.

Foreign Language Requirement for the Degree: The completion of German 4 or 4x satisfies the requirement. Students who had prior training in German and who wish to fulfill their foreign language requirement in German will be placed in the appropriate courses on the basis of their CEEB scores or, if such are not available, on the basis of a proficiency test taken before registration. If their CEEB scores or their scores on the proficiency test are sufficiently high, they will be automatically exempted from the requirement. Transfer students should consult with the department.

Language Courses

- 1-2. Elementary Full-Year Course.** [15]
 Elements of grammar, easy reading, written and oral practice. Mrs. McLaughlin and Professor Peters. Section I M W F 9. Section II M W F 12:10. Required oral sections may be chosen as follows: Section I Tu Th 9. Section II Tu Th 11.
- 1y. Elementary Full-Year Course. Part I.** [1]
 Same as Course 1, but given in the Spring Term. Professor Peters. M Tu W Th F 9.
- 2x. Elementary Full-Year Course. Part II.** [1]
 Same as Course 2, but given in the Autumn Term. Mrs. McLaughlin. M Tu W Th F 9.
- 3. Intermediate Course.** [15]
 Close reading of works by contemporary writers, outside reading assignments, grammar review, practice in speaking and writing. Professor Sakrawa and Mrs. McLaughlin. Section I M W F 10. Section II M W F 1:10.
- 3y. Intermediate Course.** [4]
 Same as Course 3, but given in the Spring Term. Mrs. McLaughlin. M W F 1:10.
- 4. Literary Appreciation.** [15]
 Study of German based on a variety of readings. Stylistic analysis. Practice in speaking and writing. Professor Sakrawa and Mrs. McLaughlin. Section I M W F 10. Section II M W F 12:10.
- 4x. Literary Appreciation.** [2]
 Same as Course 4, but given in the Autumn Term. Professor Bradley. M W F 10.
- 5. Advanced Oral German and Composition.** [0]
 A variety of short readings as a point of departure for discussions and stylistic exercises. Emphasis on idiomatic usage and syntactical structures in order to develop fluency in speaking and proficiency in writing. Professor Sakrawa. M W F 2:10.
- 7-8. Elementary Reading Course.** [3]
 Introduction to the comprehension of expository German. Recognition of structures, basic vocabulary, stylistic traits. Classes conducted in English. The courses may not be used to fulfill the language requirement. Professor Peters and . . . M W F 11.

Literature Courses

For nonmajors, courses marked thus § will count toward the general college requirement. All courses are conducted in German except Courses 50, 55, and 56. No prerequisites for courses conducted in English. Prerequisites for courses taught in German: Course 4, 4x, or the equivalent. All examinations are written in English. Students may write their papers in German or English.

- [§11, 12. **Main Currents in German Literature and Culture.**
 Professor Bradley. Not given in 1971-72.]

- §15. **Goethe and Schiller.** [9]
An introduction to their major works. Lectures and discussions. Professor Sakrawa. Tu Th 2:10-3:25.
- §16. **German Romanticism.** [9]
The Romantic Movement in Germany and its influence abroad. Aesthetic theories and selected works by leading Romanticists: e.g. the Schlegel Brothers, Novalis, Brentano, E.T.A. Hoffman, Heine, and others. Professor Sakrawa. Tu Th 2:10-3:25.
- [§25. **German Drama in the Nineteenth Century.**
Professor Peters. Not given in 1971-72.]
- §26x. **Modern German Theater.** [3]
An analysis of the dramatic works of Hofmannsthal, the Expressionists, Brecht, Weiss, Frisch, Dürrenmatt, Handke. Professor Bradley. M W F 11.
- §27y. **The German Novel and Novella from Goethe to Thomas Mann.** [5]
Critical analysis of representative works, including *Wilhelm Meister* and *Der Zauberberg*. Professor Sakrawa. M W F 2:10.
- [§28. **Modern German Prose Fiction.**
Professor Bradley. Not given in 1971-72.]
- [§32. **German Poetry in Our Century.**
Professor Bradley. Not given in 1971-72.]
- [§36. **Goethe's Faust.** Professor Sakrawa. Not given in 1971-72.]
- [§45. **German Literature in the Middle Ages.**
Professor Bradley. Not given in 1971-72.]
- [§46. **From Humanism to the Age of Enlightenment.**
Professor Bradley. Not given in 1971-72.]
- §61. **Colloquium. Women Writers of the Twentieth Century.** [0]
A study of the works, prose and poetry, of Ilse Aichinger, Ingeborg Bachmann, Hilde Domin, Nelly Sachs, Anna Seghers, Gabriele Wohmann, Christa Wolf. Introductory lectures and class discussions. A term paper on a topic to be chosen by the student, in English or German. Professor Bradley. Tu Th 10:35-11:50.
62. **Senior Essay.** [0]
Senior essay, based on the work of Course 61 or on individual research. Regular consultations with the instructor at hours to be arranged.
50. **Herman Hesse in Translation.** [9]
A study of the fiction of Herman Hesse in the context of the 20th century German novel; attention will also be given to the influence upon his works by Nietzsche, Freud, and Jung. A knowledge of German is not required. Professor Peters. Tu Th 2:10-3:25.
55. **Masterpieces of German Literature in Translation.** [9]
A study of major works of the Middle Ages, the Enlightenment, Storm and Stress, Classicism, Romanticism, and 19th century Nihilism. Among works and authors to be read: *Tristan*, Lessing, Goethe, Schiller, Büchner, Wagner, and Nietzsche. A knowledge of German is not required. Professor Peters. Tu Th 2:10-3:25.

56. Modern German Literature in Translation.**[5]**

A study of significant dramatists and novelists of the 20th century, with some consideration given to the influence of Marxism and psychoanalysis. Hofmannsthal, Brecht, Mann, Kafka, Broch, Musil, Frisch, and others. A knowledge of German is not required. Professor Peters. M W 2:10-3:25.



<i>Professor</i>	Helen H. Bacon (Chairman; 217 Milbank Hall)
<i>Associate Professor</i>	Lydia H. Lenaghan
<i>Instructor</i>	Ann Cornell Sheffield
<i>Lecturer</i>	Vassilios Christides
	Officers of Columbia University offering courses open to Barnard students: ~
<i>Professors</i>	William M. Calder III, Henry S. Commager, Jr., ¹ Walther Ludwig, Howard N. Porter
<i>Associate Professors</i>	Coleman H. Benedict, James A. Coulter, Leonardo Taran ²
<i>Assistant Professors</i>	Peter Pouncey, Seth L. Schein, ¹ Peter Smith, John Vaio
<i>Lecturer</i>	Richard Stewart

¹ Absent on leave, Spring Term.

² Absent on leave, 1971-72.

The general objectives toward which the work of the department is directed are a knowledge of the language and an understanding of the literature and civilization of the ancient Greeks and Romans. The emphasis varies in accordance with the student's interests.

A major in Greek: Eight courses in Greek above the elementary course. These must include Greek V3319x or V3320y, and Greek V3105x-V3106y. Greek-Latin 62 may be substituted for Greek V3105x or Greek V3106y.

A major in Latin: Eight courses in Latin above the elementary course. These must include Latin V3319x or V3320y, and Latin V3105x-V3106y. Greek-Latin 62 may be substituted for Latin V3105x or Latin V3106y.

A major in Greek and Latin combined may be arranged for qualified students on consultation with the major adviser.

Students who complete Greek or Latin V3998x or y with distinction, and whose other work in the major is of sufficiently high quality, will be eligible for the degree with honors.

Other fields: Courses in ancient art, archaeology, history, philosophy, other languages, and linguistics are strongly recommended.

Barnard College participates in the program of the Inter-collegiate Center for Classical Studies in Rome. Greek and Latin majors who have completed at least four semesters of Latin above the elementary course, and at least one semester of elementary Greek, are eligible to apply for admission to the program of the Rome Center for one or two semesters, preferably in the junior year. Courses taken at the Rome Center may be counted toward the major and, in some cases, toward the

fulfillment of the general requirements. Barnard College is a Supporting Institution of the American School of Classical Studies at Athens and the American Academy in Rome, and certain privileges of those schools are open, without fee, to graduates of the College.

Foreign Language Requirement for the Degree: Students may fulfill the foreign language requirement in Greek or Latin either by completing Greek 11, 12 or Latin 3, 4, or one semester above Greek 12 or Latin 4; or by passing an exemption examination with a sufficiently high grade. This examination tests the student's knowledge of grammar and her ability to translate written Greek or Latin.

Classics in Translation

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| <p>Classical Literature 35.</p> | <p>The Ancient Novel. [3]
 Satiric and romantic prose fiction and its antecedents. The novels of Petronius, Longus, Apuleius and others will be studied in relation to the art of such story-tellers as Homer, Herodotus, and Livy. Professor Bacon. M W F 11.</p> |
| <p>Classical Literature 32x.</p> | <p>Classical Myth. [4]
 A survey of major myths from the ancient near east to the advent of Christianity, with emphasis upon the content and treatment of myth in classical authors (Homer, Hesiod, Aeschylus, Sophocles, Vergil, Livy, Ovid). Professor Lenaghan. M W F 1:10.</p> |
| <p>Classical Literature C3123y.</p> | <p>Greek Drama and Its Influences.
 The major Greek tragedies and comedies, and their influence on Roman and later European drama. Some attention is paid to the problems of the origin of Greek drama, the production of plays, and the dramatic criticism of Aristotle. Miss Sheffield. M W F 10.</p> |
| <p>Classical Literature V3201x.</p> | <p>The Social and Political Ideas of Plato.
 Emphasis will be placed chiefly on the <i>Gorgias</i>, <i>Republic</i>, and <i>Laws</i>. Professor Schein. Tu Th 4:10-5:25.</p> |
| <p>Classical Civilization C3155x.</p> | <p>Greece.
 Greek literature, thought, and political institutions against their historical background. Selected readings, lectures, and discussions. Professor Pouncey. M W F 10.</p> |
| <p>Classical Civilization C3156y.</p> | <p>Rome.
 The Roman basis of modern civilization. Administration, law, commerce and communication, religion and philosophy, science, arts, literature, family, and social life. Lectures and discussions, required reading and reports. Professor Stewart. M W F 10.</p> |
| <p>Greek Language and Literature</p> | <p>For nonmajors, courses marked thus § will count toward the general college requirement.</p> |
| <p>[1-2.</p> | <p>Elementary Full-Year Course.
 Professor Bacon. Not given in 1971-72.]</p> |

- W1101x-W1102y or W1101y. Elementary Course.**
 W1101: for students who have never studied Greek. An intensive study of grammar with reading and writing of simple Attic prose. W1102: selections from Attic prose, including Plato's *Apology*. Qualified students who have not taken W1101 may be admitted to W1102 with the permission of the instructor or the departmental representative. No credit is given for W1101 until W1102 has been completed. W1101x-W1102y. Sec. 1: Professor Calder. M W F 11-12:15. Sec. 2: Professor Vaio. M W F 6:10-7:25 p.m. W1101y. Instructor to be announced. M W F 6:10-7:25 p.m.
- §11. **Prose and Poetry.** [2]
 Selections from Lysias, Herodotus, and elegy. Prerequisite: Course 1-2, or the equivalent. Miss Sheffield. M W F 10.
- §12. **Selections from Homer.** [2]
 Prerequisite: Course 11 or permission of the instructor. Professor Bacon. M W F 10.
- [§V3305x. **Tragedy.** Professor Bacon. Not given in 1971-72.]
 [§V3306y. **Historians.** Professor Vaio. Not given in 1971-72.]
 §V3307x. **Comedy.**
 Two plays of Aristophanes and selections of Menander. Prerequisite: Course 12, or the equivalent. Given every other year in alternation with Course V3305x. Professor Vaio. Tu Th 4:10-5:25.
- §V3308y. **Philosophy.**
 Plato: *Phaedo*. Prerequisite: Course 12, or the equivalent. Given every other year in alternation with Course V3306y. Professor Bacon. Tu Th 4:10-5:25.
- §V3309x. **Selections from Greek Literature, I.**
 Aeschylus: *Agamemnon* and one other play. Prerequisite: Course 12, or the equivalent. Professor Schein. M W 6:10-7:25.
- §V3310y. **Selections from Greek Literature, II.**
 Herodotus: Book VIII. Prerequisite: Course 12 or equivalent. Professor Smith. Tu Th 6:10-7:25.
- [V1109x-V1110y. **Prose Composition, I.** Professor Pouncey. Not given in 1971-72.]
 V3319x, V3320y. **Prose Composition, II.**
 The writing of sentences and (in the spring term) of connected passages in Greek. An introduction to stylistics. Prerequisite: at least four terms, or the equivalent, of Greek. Professor Vaio. W 3:10-5.
- [V3371x-V3372y. **Major Seminar.** Professor Coulter. Not given in 1971-72.]
 21, 22. **Directed Reading.**
 To be tested by a series of short papers, one long paper, or an oral or written examination. Members of the Department. Hours to be arranged.
- V3998x or y. **Supervised Research in Greek Literature.**
 A program of research in Greek literature, with the composition of a paper embodying results. Prerequisite: permission of the chairman of the department. Members of the Barnard and Columbia Departments. Hours to be arranged.

- §V3105x-V3106y. History of Greek Literature.**
Lectures based on extensive readings in Greek literature from Homer to the fourth century A.D. Prerequisite: at least two terms of Greek beyond Course 11, 12. V3105x, Professor Smith. M 2:10-4, F 11. V3106y, Professor Coulter. M 4:10-6, W 11.
- Greek-Latin 62. Comparative Readings in Greek and Latin Literature. [7]**
Parallel readings in Greek and Latin to illustrate Rome's literary obligation to Greece as well as Rome's efforts at emancipation from Greece. Students in Greek read Greek authors in Greek, Roman authors in English, students in Latin read Roman authors in Latin, Greek authors in English. The two groups meet separately one hour a week; joint meetings two hours a week. Open to juniors and seniors. Professor Lenaghan, Miss Sheffield. Th 10-11:50 and a third hour to be arranged.
- Latin Language and Literature**
- For nonmajors, courses marked thus § will count toward the general college requirement.**
- 1-2. Elementary Full-Year Course. [3]**
Grammar, composition, and reading. Course 1 is prerequisite to Course 2. Miss Sheffield. M W F 11-12:15.
- §3. Cicero: Selections. [4]**
Prerequisite: Course 1-2, or two or three years of high school Latin. Professor Bacon. M W F 1:10.
- §4. Vergil: Selections from the Aeneid. [4]**
Prerequisite: Course 3, or two or three years of high school Latin. Miss Sheffield. M W F 1:10.
- §V3012x. Lyric Poetry.**
Selections from Catullus and Horace. Prerequisite: Course 4, or four years of high school Latin. Professor Porter, Miss Sheffield, Professor Pouncey. Section I M W 11-12:15. Section II M W F 1:10. Section III M W 6:10-7:25.
- §V3011y. Myth and Pastoral.**
Selections from Livy; Vergil's *Eclogues*. Prerequisite: Course V3012x, or four years of high school Latin. Professor Pouncey, Professor Lenaghan. Section I M W F 11. Section II M W F 1:10.
- §33y. Medieval Literature. [3]**
Representative writings and genres in relation to their classical models. Prerequisite: Permission of the instructor. Professor Lenaghan. M W F 11.
- [§V3305x. Historians. Professor Benedict. Not given in 1971-72.]**
- [§V3306y. Satire. Professor Commager. Not given in 1971-72.]**
- [§V3307x. Elegiac Poetry. Professor Commager. Not given in 1971-72.]**
- §V3308y. Philosophy.**
Selections from Lucretius; attention to the Hellenistic background of Roman philosophy and to the philosophic writings of Cicero and Seneca. Prerequisite: Course V3012y or the equivalent. Given every other year in alternation with Course V3306y. Professor Benedict. M W F 11.
- §V3309x. Selections from Latin Literature, I.**
Sallust and Cicero, and the Catilinarian conspiracy. Prerequisite:

Course V3011y, or the equivalent. Professor Stewart.
Tu Th 6:10-7:25.

[§V3310y. **Selections from Latin Literature, II.**

Professor Pouncey. Not given in 1971-72.]

[V1109x-V1110y. **Prose Composition, I.** Not given in 1971-72.]

V3319x, V3320y. **Prose Composition, II.**

The writing of sentences and of connected passages in Latin. An introduction to stylistics. Prerequisite: at least four terms, or the equivalent, of Latin. Professors Stewart and Pouncey. Tu 2:10-4.

[V3371x-V3372y. **Major Seminar.** Professor Lenaghan. Not given in 1971-72.]

21, 22. **Directed Reading.**

To be tested by a series of short papers, one long paper, or an oral or written examination. Members of the Department. Hours to be arranged.

V3998x or y. **Supervised Research in Latin Literature.**

A program of research in Latin literature, with the composition of a paper embodying results. Prerequisite: permission of the chairman of the department. Members of the Barnard and Columbia Departments. Hours to be arranged.

§V3105x-V3106y. **History of Latin Literature.**

Lectures based on extensive readings in Latin literature from the beginning to the fourth century A.D. Prerequisite: at least two terms beyond Course V3012x, V3011y. V3105x, Professor Lenaghan. M 11, Th 2:10-4. V3106y, Professor Ludwig. Th 2:10-5.

Greek-Latin 62. **Comparative Readings in Greek and Latin Literature.** [7]

Parallel readings in Greek and Latin to illustrate Rome's literary obligation to Greece as well as Rome's efforts at emancipation from Greece. Students in Greek read Greek authors in Greek, Roman authors in English; students in Latin read Roman authors in Latin, Greek authors in English. The two groups meet separately one hour a week; joint meetings two hours a week. Open to juniors and seniors. Professor Lenaghan, Miss Sheffield. Th 10-11:50 and a third hour to be arranged.

Graduate Courses Certain graduate courses given in the University are open to qualified majors with the consent of the department and the major adviser. These courses are described in the Bulletin of the Graduate School of Arts and Sciences.

**Modern Greek
Language
and Literature**

1-2. **Elementary Full-Year Course.** [13]

Course 1: basic grammar and syntax; correct pronunciation and limited aural comprehension. Course 2: reading with dictionary of simple texts (e.g. P. Solomos, *He hemera tes Lampres*); use of more sophisticated grammar and syntax in writing, reading, and speaking; comprehension of Greek spoken at a moderate rate of speed and some fluency on simple topics. Dr. Christides. Tu Th 4:10-5:25.

3. Modern Greek Literature.**[9]**

Representative prose and verse texts from the 18th century to the present (e.g. G. Soures, *Poimata*; K. Ouranes, *Poimata*; E. Venezes, *Aigaio*). Comprehension of spoken Greek of greater syntactical and idiomatic complexity, and fluency on simple topics. Writing within the framework of the essentials of grammar and limited vocabulary. Dr. Christides. Tu Th 2:30-4.

4. Modern Greek Literature.**[9]**

Reading of selected literary texts (e.g. epic Akritic folksongs; poems of K. P. Cavafy; N. Kazantzakis, *Asketike*), and discussion of subjects derived from them. Writing of Greek prose using a more sophisticated knowledge of grammar and wider range of vocabulary and idiom. Dr. Christides. Tu Th 2:30-4.



<i>Professors</i>	Annette K. Baxter, Stephen Koss, Basil Rauch, Chilton Williamson (Chairman; 419 Lehman)
<i>Associate Professors</i>	Patricia Albjerg Graham, George Woodbridge
<i>Assistant Professors</i>	Hester Eisenstein, Ann Fagan, ¹ Daniel Field, Robert McCaughey, Suzanne F. Wemple
<i>Lecturer</i>	Patricia H. Labalme
<i>Associate</i>	Earl Clemens

¹ Absent on leave, Spring Term.

History, as knowledge of the past, touches all aspects of human experience. Historians' accounts of the past form a branch of literature in which factual statements can be verified in primary sources. History should be studied to improve understanding of man in society — his failures and his achievements — and to acquire a sense of the relevance of the past to the present.

All Barnard history courses (except senior seminars) are open to all Barnard students and to all Columbia College students, including freshmen.

The requirements for a major in history are eleven courses distributed as follows:

1. At least four courses in an area of concentration. While history majors usually concentrate on European or American history, they may, upon approval of the chairman, specialize in any field of particular interest, such as classical civilization, Jewish history, Oriental studies, African studies, cultural history, or urban history.
2. Five other courses. Of these, two may be taken in other departments provided that such courses are closely related to the student's field of concentration, and provided that she obtains the written permission of her major adviser.
3. Two courses of senior seminar in connection with which the student must write a senior essay.

Note: At least two of the above courses must be colloquia, for one of which an introductory seminar may be substituted.

Joint majors: A student who wishes to combine studies in history with studies in some other discipline should draw up a proposal and present it to the chairmen of the departments concerned for advice and approval.

Certain graduate courses, "G" courses, given at Columbia University are open to qualified majors with the consent of the Chairman of the Barnard Department and of the instructor. A description of these courses will be found in the Bulletin of the Graduate School of Arts and Sciences.

1. Introductory Seminars: [0]

I. The Revival and Survival of Rome.

The adaptation and transformation of the Roman cultural heritage studied in the works of Augustine, Boethius, Cassiodorus, Alcuin, John of Salisbury, Dante, Pierre Dubois, Bartolus, Petrarch, Valla, and Machiavelli. Primarily for freshmen and sophomores. Admission by written permission of the instructor. Professor Wemple. Th 3:35-5:25.

II. United States Relations with the Far East: 1785 to 1953.

Early American contacts with Asian civilizations; Perry's opening of Japan; traders, missionaries, and Marines in China; the strategic way stations of Hawaii, Samoa, Guam, Midway, and the Philippines; the Open Door in China; rivalry and war with Japan; the "special relation" with China; the Korean War. Primarily for freshmen and sophomores. Admission by written permission of the instructor. Professor Rauch. Th 10-11:50.

III. Debates among Historians.

A study of several outstanding controversies in modern European history. Examples will include problems of analysis in the study of intellectual history, social and political upheavals, and international conflict. Professor Fagan. W 4:10-6.

2. Introductory Seminars: [0]

[I. History and Psychoanalysis.

Professor Fagan. Not given in 1971-72.]

II. The United States and the Vietnam War: 1945 to Today.

The Indochina policy of President Roosevelt; President Truman's decision to support the French return; President Eisenhower, Secretary Dulles and the Geneva Agreements of 1954; President Kennedy and counter-insurgency; President Johnson and escalation; the crises of 1968; President Nixon and Vietnamization; the impact of the War on the Vietnamese and the American people and society. Primarily for freshmen and sophomores. Admission by written permission of the instructor. Professor Rauch. Th 10-11:50.

W1001x-W1002y. The Beginning of History and the Bronze Age.

W1001: From the appearance of written records in Egypt and Mesopotamia (ca. 3100 B.C.) to the expulsion of the Hyksos from Egypt and the end of the dynasty of Hammurabi in Babylon (ca. 1600 B.C.) W1002: The Egyptian and Hittite empires, the Minoan and Mycenaean cultures, and the rise of Assyria, to 1200 B.C. Professor Schmidt. M W 7:40-8:55 p.m.

W1005x-W1006y. Ancient History from 1200 B.C. to 640 A.D.

W1005: From the invasions of the twelfth century, through the revivals of Greek and Near Eastern culture, to the accession of Alexander the Great. W1006: Alexander; the Hellenistic world; the rise of Rome and the Roman Empire; to the rise of Islam. Professors Smith and Harris. Tu 6:10-8:50 p.m.

V3575x-V3576y. Israelite, Jewish, and Christian Historiography.

V3575: Israelite and Jewish historiography. V3576: Christian historiography. Colloquia. Admission by written permission of the instructor. Professors Smith and Stewart. Hours to be arranged.

W4505x. Jewry and Judaism in the Orbit of Islam.

History of the Jews in the Near East and North Africa from the

Arab conquests in the seventh century until about 1500. Inquiry into the legal and social status of the Jew in the Muslim State. Jewish mobility, urbanization, and economic expansion against the background of the struggle between Islam and Christendom. Jewish cultural and religious development and the growth of institutions of Jewish self-government. Professor Ankori. W 4:10-6.

W4507y. History of the Jews under Medieval Christendom.

The changing position of the Jews since the Christianization of the Roman Empire, and their gradual settlement in Western Europe. The Church vs. the Synagogue. Stages in the economic function of the European Jew and the corresponding changes in his legal status from Carolingian charters to "Chamber Serfdom." Patterns of communal Jewish autonomy and cultural creativity. The decline and fall of Medieval Western Jewry. Professor Ankori. W 4:10-6.

3. The Early Middle Ages: from 300 to 1050. [7]

The fusion of Graeco-Roman, Judeo-Christian, and Germanic traditions, and the emergence of Europe as a cultural unit. Professor Wemple. Tu Th 10:35-11:50.

4. The High Middle Ages: from 1050 to 1450. [7]

The social environment, political institutions, church history, thought and science, from the Gregorian Revolution to the Renaissance. Professor Wemple. Tu Th 10:35-11:50.

[5. The Roots of the Modern World: Western Europe. 1230-1494.

Professor Wemple. Not given in 1971-72.]

**History —
Italian W3197x.**

Dante's World.

The historical background of Dante's political, theological and ethical thought, and a literary analysis of its poetical rendering. An additional weekly hour of reading the *Divine Comedy* to be arranged. Professors Lorch and Wemple. Tu 4:10-6.

6. The History of Women in the Late Roman Empire and the Middle Ages. [0]

The origins of the legal and social position of women in medieval society as reflected in patristic writings, Roman and Germanic codes. The contributions of women in the high and late Middle Ages to feudal and urban society, courtly love, monasticism, mysticism, medicine, and literature, studied through primary and secondary sources. Colloquium. Written permission of the instructor required. Professor Wemple. Tu 3:35-5:25.

8. The Transformation of the Roman World: from Constantine to Charlemagne. [0]

The problem of medieval beginnings studied through political and social institutions, with particular emphasis on the influence of religion in the Carolingian era. Colloquium. Admission by written permission of the instructor. Professor Wemple. Th 3:35-5:25.

[10. Erasmus and the Humanist Predicament.

Dr. Labalme. Not given in 1971-72.]

11. Main Currents of the Modern European World: Renaissance to the French Revolution. [1]

The forces — cultural, social, political, economic — which established modern Europe and brought it into contact with the rest of the world. Professor Woodbridge. M W F 9.

**12. Main Currents of the Modern European World:
Waterloo to Today. [1]**

Nineteenth-century industrial revolutions, romanticism, liberalism, nationalism, socialism, and imperialism; and twentieth-century wars, revolutions, dictatorships, and aspirations. Professor Woodbridge. M W F 9.

[13. The Italian Renaissance in the 15th and 16th Centuries.

Dr. Labalme. Not given in 1971-72.]

14. The Reformation in Europe in the 16th Century. [3]

The great reformers and religious changes; Luther, Calvin, Zwingli, the Anabaptists, Tudor reforms, and the Catholic Reformation. Dr. Labalme. M W 11:10-12:25.

15. The History of Venice from the 13th to the 18th Centuries. [3]

A survey of the Venetian city-state's politics, inhabitants, and culture in its unique development and in its European context from the Fourth Crusade to Napoleon's destruction of the Republic. Dr. Labalme. M W 11:10-12:25.

C3786y. English Social History: 1300-1700.

The development of English society from the eve of the Black Death to the eve of the Industrial Revolution. Colloquium. Admission by written permission of the instructor. Professor Bean. Tu 4:10-6.

W4293x-W4294y. English Constitutional History.

The development of English government and law in relation to social and cultural change from the Anglo-Saxon period to the twentieth century. W4293x: from the Anglo-Saxon period to the early sixteenth century. W4294y: from the early sixteenth century to the twentieth century. Prerequisite: junior standing or permission of the instructor. Especially recommended for students anticipating graduate work in history or admission to law school. Professor Bean. Tu Th 1:10.

W4150x-W4151y. The Revolutionary Era.

The transformation of state and society, from the old regime to the beginning of the industrial era, roughly 1750-1848. Emphasis on revolutionary conflicts in France and on the social context of change. Professor Woloch. Tu 10-11:50.

[17. An Age of Conflict: Europe from 1815 to 1914.

Professor Woodbridge. Not given in 1971-72.]

[18. The Struggle for Mastery: Europe from 1870 to 1914.

Professor Woodbridge. Not given in 1971-72.]

C3923x. The Scientific Revolution of the 17th Century.

A study of the history of science in the seventeenth century based on the reading of both primary sources and secondary accounts. Major attention will be centered on the work of Galileo, Descartes, Harvey, Boyle, and Newton. The concept of "scientific revolution" will also be analyzed in detail, with discussions based on the recent work of scholars such as Thomas Kuhn, Joseph Agassi, and Stephen Toulmin. Colloquium. Admission by written permission of the instructor. Professor L. Graham. W 10-12.

**C3849x-C3850y. Ideas and Institutions in Continental European History:
18th and Early 19th Centuries.**

Colloquium. Admission by written permission of the instructor. Professor Raeff. M 2:10-4.

19. **European Diplomacy: 1914-1939.** [3]
The origins and impact of the First World War; the "new diplomacy" and the peace settlements; the emergence of new political systems; attempts to attain stability in the Twenties; and the collapse of the Thirties. Professor Fagan. M W F 11.
- [20. **The Second World War and the Recovery of Europe.**
Professor Fagan. Not given in 1971-72.]
21. **England Under the Tudors and Stuarts: 1485 to 1714.** [9]
England's national monarchy from its establishment through its evolution by parliamentary agitation and civil war. Special attention to the effects of religious thought on political development. Professor Koss. Tu Th 2:10-3:25.
22. **Modern Britain: 1714 to Today.** [9]
The transformation from squirearchy to meritocracy, with an emphasis on the rise of industrialism, its effects on Britain's domestic and international situations, and the development of the welfare state. Professor Koss. Tu Th 2:10-3:25.
25. **The Establishment and Downfall of the French Monarchy: 1515-1789.** [2]
The cultural, intellectual, political, social, and economic development that brought into existence the monarchy of Louis XIV and led to its collapse. Professor Woodbridge. M W F 10.
- C3819x. **The History of the Old Regime.**
A consideration of some of the new directions being taken by historians of the Old Regime, with particular emphasis on the history of France and England. The reading is intended to suggest both the range of studies now being done and the extent to which the shape of traditional interpretation is being altered by new work. Colloquium. Miss Biddle. W 10-11:50.
26. **France in Turmoil: 1789 to Today.** [2]
The cultural, intellectual, political, social, and economic developments that have kept France in turmoil from the French Revolution to Charles de Gaulle. Professor Woodbridge. M W F 10.
- W4189x. **The History of Modern Spain.**
Selected topics of the period since the close of the Middle Ages. Stress will be laid on the examination of economic and social institutions. Professor Noel. M W F 2:10.
- C3922y. **The French Revolution.**
The problem of "revolution in the Revolution" — the origins, nature, internal conflicts, accomplishments, and failures of the various radical movements within the French Revolution. Discussions and short essays will be based on readings in secondary and selected primary materials. Reading knowledge of French useful, but not required. Colloquium. Admission by written permission of the instructor. Professor Woloch. W 2:10-4.
- C3837x. **The Revolutions of 1848.**
The springtime of the peoples and of the intellectuals; a comparative study of the struggle of Europe's conservative, nationalist, liberal, and socialist forces. Colloquium. Admission by written permission of the instructor. Professor Deak. Hours to be arranged.

- C3817y. Bourgeois Society and Its Critics in the Nineteenth Century.**
Bourgeois society, its solidity and deficiencies, as seen through the writings of its great detractors, from Rousseau through Thomas Mann. Weekly discussions of various texts, principally philosophers and novelists. Colloquium. Professor Stern. W 7:40-9:40 p.m.
- 27. History of Russia from the Time of Troubles to the Era of Reforms.** [7]
Political, economic, and social history from the beginning of the seventeenth century to the middle of the nineteenth century. Professor D. Field. Tu Th 10:35-11:50.
- 28. History of Russia from the Era of Reforms to the Death of Stalin.** [7]
Political, economic, and social history from the middle of the nineteenth century to the middle of the twentieth century, with special emphasis on the revolutions of 1917. Professor D. Field. Tu Th 10:35-11:50.
- [29. The Culture of Pre-Petrine Russia.**
Professor D. Field. Not given in 1971-72.]
- 30. Russian Radicalism and Its Antagonists.** [9]
Social and political thought from the eighteenth century to the 1920's; the enlightenment in Russia; the Decembrist movement; the slavophiles and later nationalists; the "westerners" and their successors; the development of Russian Marxism. Special emphasis on pre-Marxist radicalism (*narodnichestvo*). Professor D. Field. Tu Th 2:10-3:25.
- 31. Serfdom in Russia and Slavery in the United States.** [0]
A comparative inquiry into the social and economic character of bondage in the nineteenth century, with some attention to the impact of slavery and serfdom on politics and literature. Colloquium. Professor D. Field. Tu 3:35-5:25.
- C3818y. Intellectual History of Europe: 1815-1930.**
Readings in the cultural and intellectual history of Western Europe, from the early nineteenth century to the rise of fascism. Topics for discussion are romanticism, the development of left and right political ideologies, and the culture of fascism. Colloquium. Admission by written permission of the instructor. Professor G. Field. M 4-6.
- V3971x-V3972y. History of Anarchist Ideas and Movements.**
Readings and research on anarchist thought and practice in the nineteenth and twentieth centuries. Special attention to the theories of Godwin, Proudhon, Stirner, Bakunin, Kropotkin, Tolstoy, and Malatesta. Comparative study of the activist movements in France, Italy, Spain, and Russia, from the First International to the Spanish Civil War. Prerequisite: a reading knowledge of one modern foreign language. Colloquium. Admission by written permission of the instructor. Professor Pernicone. Tu 11-12:50.
- W3205x-W3206y. The Political Culture of Europe Since 1890.**
A historical analysis of European society in the age of democracy, imperialism, and totalitarianism, with particular emphasis on the relation between changes in European society and the political decline of Europe. Professors Mastny and Stern. Tu Th 2:10-3:25.

V1003x-V1004y. History of Science.

The development of the major scientific ideas within the history of civilization, from classical antiquity to the present day. Emphasis is on the crucial stages in the history of science rather than a detailed survey. Either term may be taken separately. Professor L. Graham. Tu Th 1:10-2:25.

[33. The Great Historians.

Professors Wemple and Koss. Not given in 1971-72.]

[35. The French Revolution.

Professor Woodbridge. Not given in 1971-72.]

37. The History of the Intellectual in Politics: France, 1890 to Today.**[0]**

A study of the special role of the intellectual in French politics and the relation of ideology to events in the context of modern French history. A reading knowledge of French will be useful but is not required. Colloquium. Admission by written permission of the instructor. Professor Eisenstein. M 2:10-4.

38. Socialism in Modern France: 1815 to Today.**[0]**

A study of the major developments in the history of French socialism, from the utopian theories of Fourier and Saint-Simon through the growth of the labor movement and the Socialist and Communist parties. A reading knowledge of French will be useful but is not required. Colloquium. Admission by written permission of the instructor. Professor Eisenstein. M 2:10-4.

[44. Origins and Rise of Fascism.

Professor Fagan. Not given in 1971-72.]

[45. The Life and Lifetime of Sir Winston Churchill.

Professor Koss. Not given in 1971-72.]

46x. Europe in the Age of Tyrannies: 1914-1945.**[0]**

A study of European society in the period of the second Thirty Years War, with emphasis on the tyrannies — political, economic, cultural, and psychological — which prevailed upon men and nations. Colloquium. Admission by permission of the instructor. Professor Koss. Th 4:10-6.

47. Towards Munich and War: British Policy in the Thirties. [0]

The development of British policy towards Hitler's Germany with emphasis upon the domestic, European, and global factors that influenced British decisions. Colloquium. Professor Fagan. M 2:10-4.

C3853x. Fascism.

An examination of fascist movements, mostly in Europe, since about 1900. Emphasis will be placed upon the preconditions for mass movements of the right, ways in which they attained power, and the uses to which that power was devoted. A reading knowledge of a modern European language will be helpful but is not required. Colloquium. Admission by written permission of the instructor. Professor Paxton. Tu 4:10-6.

[48. Modern Imperialism: Myth and Reality.

Professor Williamson. Not given in 1971-72.]

51. Survey of American Civilization to the Civil War. [2]

The major theological and organizational concerns of seventeenth-century English colonists; the political and ideological process of defining an American; the social and economic forces that helped shape a distinctive identity; the inherent pressures that culminated in the nation's violent disruption in 1861. Professor McCaughey. M W F 10.

52. Survey of American Civilization Since the Civil War. [2]

The major intellectual and social accommodations made by Americans to industrialization and urbanization; patterns of political and economic thought from Reconstruction to the New Deal; selected topics on post-World War Two developments. Professor McCaughey. M W F 10.

53. American Colonial History. [7]

A study of continuity and change in the major institutions of American society from 1607 to 1783. Professor Williamson. Tu Th 10:35-11:50.

54. American Revolutionary History. [7]

Why and how the American people made a revolution, waged a war and climaxed their victories with the Federal Constitution. Professor Williamson. Tu Th 10:35-11:50.

W3121x-W3122y. The United States in the Nineteenth Century: 1815-1877.

Political and social developments in the nineteenth century, including such subjects as Jacksonian Democracy, slavery and the Old South, abolitionism, the causes of the Civil War, the Civil War and emancipation, and Reconstruction. Professor Foner. Tu Th 11-12:15.

W3137x-W3138y. The United States: 1877-1929.

The evolution of the American nation from the late 1870's through the Great Depression. The course emphasizes the political, economic, and social context of the period. Professor Sternstein. M W 11-12:15.

C3955x-C3956y. American Civilization: 1880-1941.

Selected books and subjects; the interrelationships of various aspects of American civilization. Colloquium. Admission by written permission of the instructor. Professor Miner. Th 2:10-4.

C3925x-C3926y. Readings in American Radical History.

Readings and research in aspects of American protest movements. Colloquium. Admission by permission of the instructor. Professor Shenton. W 4:10-6.

W4742x-W4743y. American Labor History.

The American labor force from the colonial period to the present. Professor Leab. Tu Th 11-12:15.

[55. From the Federal Constitution to Jacksonian Democracy.

Professor Williamson. Not given in 1971-72.]

[56. Sectionalism, Civil War, and Reconstruction.

Professor Williamson. Not given in 1971-72.]

[57. Origins of Modern America: from Reconstruction to the First World War.

Professor McCaughey. Not given in 1971-72.]

- [58. **Radicalism, Reform, and Reaction in Modern America: 1913 to Today.**

Professor Rauch. Not given in 1971-72.]

- [59. **The Classical Age of American Diplomacy: 1775-1823.**

Professor Rauch. Not given in 1971-72.]

- [60. **American Diplomacy and Power: 1823 to Today.**

Professor Rauch. Not given in 1971-72.]

W4697x-W4698y. History of the Foreign Relations of the United States.

Selected topics in the history of American diplomacy since 1763, with attention to the impact of domestic politics on the formulation of foreign policies. Readings in diplomatic correspondence, documents, and monographs. Professor Graff. W 2:10-4.

W4673x. American Urban History.

A historical analysis of the structure, character, and influence of American cities in the growth of the nation, from the colonial era to the present. Problems considered include urban imperialism, urban reform, bossism, tenements, the settlement house movement, architecture, city planning, urban renewal, origins of the ghetto, and racial violence. Professor Jackson. Tu Th 9:30-10:45.

W4675x-W4676y. Ethnic and Racial Minorities in American History.

An analysis of the effects of the presence of ethnic and racial minorities upon labor, race relations, religion, urbanization and politics. The coverage will be topical rather than chronological. Professor Shenton. Tu Th 2:10-3:25.

C3935x. Colloquium on Black Urban America.

An historical examination of all major aspects of black life in the inner city, 1870 to the present. Professor Lynch. Th 4:10-6.

61. **American Historiography.** [0]

The art and craft of American historians from Cotton Mather to the New Left historians. Colloquium. Admission by written permission of the instructor. Professor Williamson. Tu 3:35-5:25.

63. **Problems in the Teaching of History.** [17]

The selection and organization of content for junior and senior high school history courses; use of primary sources, secondary readings, and other relevant materials; problems of evaluation. Primarily for students in the Education Program; others by written permission of the instructor. Mr. Clemens. M 4:10-6.

64. **(Religion 64.) The History of Religion in America.** [6]

Religious thought and institutions from colonial times to the present; their influence on American political and social history through the work of representative individuals. Professor Snook. Tu Th 9:10-10:25.

65. **History of Education in the United States.** [5]

The development of American education in the context of social and intellectual history. Professor P. Graham. M 2:10-4.

71. **American Colleges in Crisis.** [0]

The English college model and the American colonial context; the ante-bellum college and the egalitarian imperative; the emergent university as refuge and catalyst; the embattled multiversity and the contemporary predicament. Colloquium. Admission by permission of the instructor. Professor McCaughey. W 2:10-3:50.

[72. American Urban History.

Professor McCaughey. Not given in 1971-72.]

C3923x. The Civil War and Reconstruction: 1840-1877.

Readings and research in the social, economic, political, and military affairs of the United States before, during, and after the Civil War.

Colloquium. Admission by written permission of the instructor.

Professor Kerby. Tu 4:10-6.

[74. Critics of Modern America: 1865 to Today.

Professor Baxter. Not given in 1971-72.]

75. Franklin D. Roosevelt and the New Deal.

[0]

The domestic policies of President F. D. Roosevelt considered as the crucial stage in the formation of the modern American state.

Colloquium. Admission by written permission of the instructor.

Professor Rauch. W 2:10-4.

76. Franklin D. Roosevelt and Foreign Affairs.

[0]

The foreign policies of President F. D. Roosevelt considered as the crucial stage in the formation of America's position in the world today. Professor Rauch. W 2:10-4.

80. Anglo-American Perceptions.

[0]

An investigation of trans-Atlantic influences, using both English and American primary sources. Among the topics to be considered are: 17th century Puritanism; varieties of Whiggery and Radicalism; movements for democratic and social reform; the imperial experience; 20th-century cultural connections and Alliance politics. Colloquium. Professors Koss and McCaughey. Th 3:35-5:25.

81. History of Women in America: to 1890.

[0]

An examination of important historical and literary sources for the study of American women from colonial times to 1890. Colloquium. Admission by written permission of the instructor. Professor Baxter. Tu 2:10-4.

82. History of Women in America: since 1890.

[0]

An examination of important historical and literary sources for the study of American women from 1890 to today. Colloquium. Admission by written permission of the instructor. Professor Baxter. Tu 2:10-4.

84. American Intellectual History: 1865-1918.

[8]

An examination of the major intellectual trends in the United States between Appomattox and World War One, including Darwinism, mugwumpery, the emergence of the American university, cataclysmic thought in the '90's, the Progressive temper, the crisis of the Pragmatists in 1917. Professor McCaughey. Tu Th 11-12:15.

W3897x-W3898y.

Colloquium on Twentieth-century American History: The United States in the Cold War Era, 1945-1963.

Readings and research on social, economic, and political developments in the United States from the decision to drop the Atomic Bomb to the assassination of John F. Kennedy. Prerequisite: W1109-W1110, or the equivalent, and permission of the instructor. Professor Leab. W 2:10-4.

**Afro-American
Civilization**

**Introduction to the History and Culture of the Black
Man in Africa and the Americas.**

W3001x-W3002y. W3001x: Culture and political organization in Western Africa; the Atlantic slave trade; New World societies and the nature of the black contribution to them; the significance of cultural persistence; black protest movements and revolts; abolition of the slave trade; emancipation. Professor Irwin. Tu Th 11-12:15. W3002y; The Black American since 1863; rural South and urban ghetto in the U.S.A.; Caribbean and Brazilian Afro-American societies; Pan-Africanism; Ethiopianism; African nationalism and decolonization; trans-Atlantic cultural, religious, educational, and political cross-fertilizations; the Black identity. Professor Lynch. Tu Th 1:10-2:25.

W3127x-W3128y. **History of Africa.**
History of the African continent from the earliest times to the present. W3127: to 1800. W3128: 1800 to 1960. Professor Irwin. M W 11-12:15.

W4328y. **The British Empire-Commonwealth since the American Revolution.**

Major themes will consist of reform, expansion, anti-imperialism, the New Imperialism and the emergence of the Commonwealth since 1914. Professor Williamson. M W 11.

91-92. Senior Seminars in European Civilization. [0]

Students will conduct individual research, in consultation with the instructor, on subjects in European thought and society of particular interest to themselves. The results of each project will be presented in seminar discussion in the form of the Senior Essay. Open to senior majors; others by written permission of the instructor. Professor Woodbridge. W 4:10-6.

93-94. Senior Seminar in American Civilization. [0]

Individual research on diverse aspects of American history and presentation of results in seminar discussion in the form of the Senior Essay. Open to senior majors; others by written permission of the instructor. Professor Williamson. Th 4:10-6.

Graduate Courses Certain graduate courses given in the University are open to qualified majors with the consent of the department and the major adviser. These courses are described in the Bulletin of the Graduate School of Arts and Sciences.

Professor Maristella De Panizza Lorch¹ (Chairman for Barnard College, 206 Milbank)

Officers of Columbia University offering courses open to Barnard students:

Professors John C. Nelson, Olga Ragusa, Luciano Rebay

Instructors Jon Cherubini, Alberta Fabris Grube (Acting Chairman for Barnard College, Spring Term, 512 Casa Italiana), Gabriel Marruzzo, Piernico Solinas

¹ Absent on leave, Spring Term.

A major in Italian is expected to attain (a) sufficient knowledge of the language to enable her to read, write and speak it, (b) a fundamental acquaintance with Italian literature, (c) ability to understand and interpret literary texts in Italian.

Courses: A minimum of ten courses, exclusive of language courses, to be planned as early as possible in consultation with the department; Course V3991x-V3992y.

Allied subjects: In consultation with their major adviser students should select courses in other languages and literatures, music, art history, philosophy, and religion.

The major examination consists of four hours of written work and an oral examination.

Foreign Language Requirement for the Degrees: All new students who intend to satisfy the foreign language requirement in Italian must take a placement examination before registration. This examination tests the student's knowledge of grammar, her ability to comprehend written and spoken Italian, and her ability in free composition. Students receiving a sufficiently high grade will automatically fulfill the requirement. All others may do so by completing a full-year literature course, given in Italian, or Course V3333x with a minimum grade of B+.

Casa Italiana: The Casa Italiana, located on Amsterdam Avenue at 117th Street, is open to all students interested in Italian culture and literature. A program of films, lectures, concerts, plays, poetry recitations, and informal gatherings is organized to meet the students' needs.

Language Courses

V1101x-V1102y. Elementary Full-Year Course.

An integral course for beginners with intensive oral-aural drill. Reading, translation, conversation. May not be taken simultaneously with elementary Spanish. No credit is given for Course V1101x until Course V1102y has been completed. Work in the language laboratory for one hour weekly is a required part of the course. Section I M Tu W Th F 9. Dr. Solinas. Section II M W F 12 and Tu Th 11. . . .

V1201x-V1202y. Intermediate Course.

A review of the essentials of grammar; intensive and extensive reading, particularly from contemporary authors; translation, composition, and practice in conversation. In the second semester special attention will be given to literature, art, social customs of Sicily from the thirteenth century to the present. Prerequisite: Course V1101x-V1102y or the equivalent. Mr. Marruzzo. M Tu W F 10.

V1301x-V1302y. Comprehensive Elementary and Intermediate Course.

For linguistically gifted students who wish to acquire by intensive study the reading skill necessary to interpret Italian literary texts. Section I M W F 11-12:15. Mr. Cherubini. Section II M W F 4:10-5:25. Dr. Solinas.

With the permission of the chairman of the department, this course may be applied toward the fulfillment of the language requirement, provided it is followed by a one-year course in Italian literature.

V3113x-V3114y. Introduction to the Reading and Analysis of Italian Literature.

Open primarily to graduate students in other departments as a cognate course to their field of specialization. Qualified juniors and seniors may be admitted with permission of the instructor. A previous knowledge of Italian is not required.

V3113x. The basic structure of the language, with emphasis on building vocabulary through progressively difficult readings.

V3114y. Reading and analysis of selected classics of Italian literature by such authors as Dante, Petrarca, Boccaccio, Machiavelli, Manzoni, Verga, and Pirandello. Mr. Cherubini. Tu Th 4:10-5:25.

**Literature
Courses in Italian**

For nonmajors, courses marked thus § will count toward the general college requirement. All courses are conducted in Italian.

§V3333x-V3334y. Introduction to Italian Literature.

History of Italian literature from Dante through the twentieth century; oral and written reports.

V3333x. Major literary works up to the seventeenth century. V3334y. From Marino to the moderns. Prerequisite: V1202y or the equivalent. Dr. Grube. M W 1:10-2:25.

[§V3335x-V3336y. Italian Written and Oral Style. Not given in 1971-72.]**[§V3449x-V3450y. Contemporary Italian Literature. Not given in 1971-72.]**

[§V3535x. Dante. Not given in 1971-72.]

[§V3536y. Petrarch and Boccaccio. Not given in 1971-72.]

V3537x-V3538y. Humanism and the Renaissance.

In-depth reading of the selected works of Ariosto and Machiavelli against the historical and cultural background. Oral and written reports. Prerequisite: Course V1201-V1202 or the equivalent. Mr. Cherubini. M W 6:10-7:25.

V3639x-V3640y. Italian Literature from the Renaissance to the Risorgimento.

The attack on religious dogmatism; the baroque in poetry; the reform of the theatre; and the culture of the Enlightenment. Prerequisite: Course V1201-V1202 or the equivalent. Dr. Grube, M W 4:10-5:25.

- §V3991x-V3992y. **Masterpieces of Italian Literature.**
 Required of majors. Open to other qualified students by permission of the chairman of the department. Intensive analysis of literary masterworks leading to the preparation of a critical essay. Dr. Solinas. M W 2:40-3:55.

**Courses Given
in English**

Students majoring in Italian may take these courses only with the permission of the chairman of the department.

[V1122y. **Studies in the Italian Renaissance.**

Professor Lorch. Not given in 1971-72.]

[History-
Italian V1132y.

Petrarch and the Roots of the Modern World.

Not given in 1971-72.]

[V1133x. **Petrarch and Petrarchism.**

Professor Lorch. Not given in 1971-72.]

[V1134y. **Studies in Medieval Romance Literature.**

Professor Nelson. Not given in 1971-72.]

History-
Italian W3197x.

Dante's World.

The historical background of Dante's political, theological, and ethical thought and the literary analysis of its poetical rendering. Professors Lorch and Wemple. Tu 4:10-6.

[V3642y. **Studies in Contemporary Italian Arts: The Italian Film.**

Professor Lorch. Not given in 1971-72.]

[English-
Italian C3050y.

The Renaissance Epic.

Professor Lorch. Not given in 1971-72.]

English-
Italian C3358y.

Artistic Theory in the Renaissance.

An examination of a selected number of texts (in translation) on artistic theory — Alberti, Vassari, Leonardo, among others — and consideration of their importance to the history of art and literary criticism, with special attention to the critical terminology used. Professor Selig. M W 11-12:30.

Graduate Courses

Certain graduate courses given in the University are open to qualified majors with the consent of the chairman of the department. These courses are described in the Bulletin of the Graduate School of Arts and Sciences.

<i>Associate Professor</i>	Joseph L. Malone (Chairman, 412A Milbank Hall) Officers of Columbia University offering courses open to Barnard students:
<i>Professor</i>	William Diver
<i>Assistant Professor</i>	To Be Announced

The purpose of the study of linguistics is to develop understanding of the nature of language. The major is designed to provide the student with a broad appreciation of the fundamental problems of language analysis, some training in the techniques of linguistic research, as well as insight into the interrelations of linguistics with the other social and communicational sciences, the humanities, and philosophy and mathematics.

The student majoring in linguistics must (I) successfully complete Linguistics 21, 22, V3203x, V3206y, either V3301x or V3303x, and 60; and (II) satisfy a program of language and related requirements to be worked out on an individual basis with the major adviser.

The student majoring in linguistics is also encouraged to take courses in old forms of language (e.g. English 53, French 31, Greek or Latin 1-2), history or philosophy or psychology of language (e.g. English 90, Philosophy W3177y, Psychology 20), and anthropological linguistics (e.g. Anthropology-Linguistics V3034y).

- 21, 22. Introduction to Linguistics. [9]**
The nature of language. Characteristics of phonological and grammatical systems and of the lexicon. Evolution of language. Role of linguistics in related disciplines. Modern techniques of linguistic analysis. Linguistics 21 is prerequisite to Linguistics 22. Professor Malone. Tu Th 2:10-3:25.
- V3203x. Synchronic Linguistics.**
Varied approaches to problems in synchronic linguistics, selected to emphasize critical points in linguistic theory. Prerequisite: Linguistics 21, 22, or Linguistics C3101x, C3102y. Instructor to be announced. M W F 11.
- V3206y. Historical Linguistics.**
The principles of both historical and comparative linguistics, with some consideration of the role of philology. Prerequisite: Linguistics 21, 22, or Linguistics C3101x, C3102y. Instructor to be announced. M W F 11.
- [V3301x. The Structure of a Language. Not given in 1971-72.]**
V3303x. Linguistic Analysis.
Detailed examination of a linguistic problem chosen by the instructor. The Latin subjunctive, its contribution, as a single meaning, to a great variety of messages. Previous knowledge of

Latin is not required. Prerequisite: Linguistics 21, 22 or Linguistics C3101x, C3102y. Professor Diver. Tu Th 2-3.

60. Seminar in Linguistics.

[0]

Supervised research in the student's language of specialization; preparation of a term paper. There will also be lectures on modern advances in linguistic theory, especially as relevant to other areas of science and philosophy. Prerequisite: the linguistics major, and senior standing. Professor Malone. Th 10-11:50.



<i>Professor</i>	Patrick X. Gallagher (Chairman; 506 Altschul)
<i>Assistant Professor</i>	Brian O'Byrne
	Officers of Columbia University offering courses open to Barnard students:
<i>Professors</i>	Hyman Bass, Lipman Bers, Samuel Eilenberg, Howard Garland, Ellis Kolchin, Masatake Kuranishi, Wilfried Schmid
<i>Associate Professor</i>	Armand Brumer
<i>Joseph Fels Ritt</i>	C. Herbert Clemens, John H. Cozzens, Donald Knutson,
<i>Assistant Professors</i>	Aroldo G. Kaplan, Andy Magid, Reto A. Ruedy, Peter Shalen, David Tartakoff, Bret R. Tilson

Calculus is offered in three sequences, designated A, B, and C.

Calculus A is intended for students who need calculus primarily for its applications. Calculus B is intended to develop a theoretical understanding of the mathematical concepts.

Calculus C is on a mature level and demands creative imagination and an unusual ability to think abstractly.

In the A and B courses, the lectures are supplemented by recitation periods which meet once a week in small groups. Assignment to recitation sections are made after the first lecture.

Students may transfer from one division of Calculus to another, with the approval of the Columbia departmental representative. This is not a change of program.

An advanced placement score of 4 or 5 earns admission to the freshman section of IIIB, and advanced placement credit equivalent to one course, which is increased to two courses upon successful completion in the freshman year of IC-IIC or IIIB-IVB. A score of 3 earns admission to IIIA or IIB. Students who have had a course in differential calculus (but have not had a thorough grounding in integration) may take IIB.

A major in mathematics: Eight course (exclusive of 7, 8) are required. These must include the following: Calculus I-IV (in the B or C sequence, if possible); W3161x, W3162y, at least two from among 31, 40, W3040x, W3041y. At least six of the required courses should be completed by the junior year. Graduate courses and courses in allied fields, such as statistics, physics, applied mathematics, history of science, etc., are often taken. Majors planning graduate study are advised to obtain a reading knowledge of two of the three languages: French, German, Russian.

The major examination, in the senior year, consists of the Undergraduate Record Examination.

7¹, 8¹. Mathematical Analysis. [2]

Designed to give the student who intends to take only one year of college mathematics as broad a view as possible of the nature of mathematics. Autumn Term: Trigonometry and algebra. Spring Term: Topics in analytic geometry, differential and integral calculus. This course is primarily for those who do not plan to major in mathematics or a physical science. Course 7 is prerequisite to Course 8. Professor O'Byrne. M W F 10.

¹ Courses may not be counted toward a major in mathematics.

C1101x, C1102y. Calculus IA and IIA.

Functions. Limits. Derivatives. Examples. Applications (motion, curve tracing, maxima and minima.) Mean value theorem. Integrals. Integration by parts and substitution. Applications (area, volume, length, work, energy.) Elementary transcendental functions. Applications (radioactive decay, vibrations.) Taylor's theorem with remainder. Prerequisite: trigonometry. Professors Bass, Clemens, Gallagher and Magid. M W F 11. Recitation sections: Tu or Th, 8 or 12.

C1103x, C1104y. Calculus IB and IIB.

The same material as Course IA, IIA, with greater emphasis on the understanding of the mathematical concepts and the logical structure. Professors Cozzens and Shalen. M W F 11. Recitation sections: Tu or Th, 8 or 12.

C1104x, C1203y. Calculus IIB and IIIB.

Prerequisite: A course in differential calculus. Professor O'Byrne. M W F 11. Recitation sections: Tu or Th, 8 or 12.

C1107x, C1108y. Calculus IC and IIC.

The same material as Course IA, IIA. The terminology and style are thoroughly modern. Intended for students who have facility with discussions on an abstract level, or who appear likely to develop such facility early. Admission is by examination, given by the Columbia mathematics department during Freshman Week. Professor Kolchin. M W F 11.

C1201x, C1202y. Calculus IIIA and IVA.

Vector valued functions. Functions of several variables. Examples. Partial derivatives. Chain rule and the gradient. Multiple integrals. Various coordinates. Line and surface integrals. Vector analysis. Infinite series. Power series. Applications. Prerequisite: Calculus II for IIIA, III for IVA. Professors Ruedy and Tartakoff. Tu Th 11-12:15. Recitation sections: M or W, 8 or 12.

C1203x, C1204y. Calculus IIIB and IVB.

The same material as Calculus IIIA, IVA, with greater emphasis on the understanding of the mathematical concepts and the logical structure. Prerequisites: Calculus IIB or the equivalent for IIIB, Calculus IIIB for IVB. Section I. Professor Brumer. Tu Th 11-12:15. Recitation sections: M or W, 8 or 12. Section II. Professor Tilson. M W F 11. Recitation sections: Tu or Th, 8 or 12 (freshman section).

C1204x. Calculus IVB.

Prerequisite: Calculus IIIB. . . . Tu Th 11-12:15. Recitation sections: M or W, 8 or 12.

C1207x, C1208y. Calculus IIIC and IVC.

The material of Calculus IIIA, IVA, plus additional topics, as time permits. The terminology and style are thoroughly modern.

Prerequisites: Calculus IIC for IIIC, Calculus IIIC for IVC.

Professor Garland. Tu Th 11-12:15.

31. Number Theory.**[6]**

Congruences, quadratic residues, Gaussian sums. Number-theoretic functions. Distribution of primes. Irrational, algebraic and transcendental numbers. Prerequisite: Calculus II. . . . Tu Th 9:10-10:25.

40. Group Theory.**[6]**

Sets and maps. Groups, subgroups, factor groups. Actions of groups on sets. Sylow's theorem. Symmetry groups of geometric figures.

Prerequisite: Calculus III. . . . Tu Th 9:10-10:25.

W3005x, W3006y. Advanced Calculus for Science Majors.

Completion of the basic calculus sequence with the essential groundwork for applications to physics and engineering. Elements of linear algebra. Power series. Taylor expansions. Chain rule. Change of variables in multiple integrals. Line and surface integrals. Green's and Stokes' theorem. Implicit function theorem. Differentiation of series and integrals. Orthogonal expansions: Fourier series, Legendre polynomials, Bessel functions. Complex analysis: Cauchy-Riemann equations, Cauchy theorem, Residue theorem with applications to contour integrations. Prerequisite: Calculus IV. Professor Knutson. Tu Th 1:10-2:25.

W3007x. Complex Variables.

An elementary course in functions of a complex variable. Complex numbers, analytic functions, Cauchy-Riemann equations. Cauchy integral theorem, Taylor and Laurent series, poles and essential singularities, conformal mapping. . . . M W 1:10-2:25.

W3010x. Fundamental Concepts of Mathematics.

The groundwork on which almost all modern mathematics rests. Sets, mappings, relations, ordered sets, well-ordering, natural numbers, cardinal numbers, ordinal numbers, choice functions, Zorn's lemma, induction, real and complex numbers. Prerequisite: Calculus IV and at least one 3000 course. Professor Cozzens. M W 4:10-5:25.

W3027x (or W3027y). Differential Equations.

Solutions of ordinary differential equations: linear equations with constant coefficients, series solutions at regular and singular points. Boundary value problems. Qualitative theory of nonlinear equations. Selected applications. Prerequisite: Calculus IV or equivalent. Autumn Term: Professor Brumer. Tu Th 6:10-7:25. Spring Term: Professor Cozzens. M W F 10.

W3028y. Partial Differential Equations.

Introduction to partial differential equations. First-order equations. Linear second-order equations; separation of variables, solution by series expansions. Boundary value problems. Further topics chosen by the instructor. Prerequisite: Course W3027x or equivalent. Professor Brumer. Tu Th 6:10-7:25.

W3040x, W3041y. Introduction to Modern Algebra.

Introduction to groups, rings, fields, with examples. Polynomials, algebraic number fields, the Galois theory and applications. Pre-

requisite: Calculus IV or consent of instructor. Professor Magid. M W 2:40-3:55.

W3161x, W3162y.

Introduction to Modern Analysis.

The real numbers. Metric spaces. Elements of general topology. Continuous functions. Implicit function theory. Measure and integration. Change of variables in integration. Banach spaces and Hilbert spaces. Bounded operators. Examples and applications. Further topics chosen by the instructor. Prerequisite: Calculus IV or the equivalent. Professor Kaplan. Tu Th 1:10-2:25.

**W3202x
(or W3202y).**

Linear Algebra.

Vector spaces, linear transformations, matrices, quadratic forms. Prerequisite: Calculus II or the equivalent. Autumn Term: . . . Tu Th 6:10-7:25. Spring Term: Professor Knutson. Tu Th 10, W 12.

W3375x.

Geometric Topology.

Elementary combinatorial properties of polyhedra. The fundamental group; elementary homology theory and related invariants. Topology of surfaces and their classification. Prerequisite: Calculus IV or consent of instructor. Professor Knutson. Tu Th 4:10-5:25.

W3386y.

Differential Geometry.

Local and global differential geometry of submanifolds of Euclidean 3-space. Frenet formulas for curves. Various types of curvatures for curves and surfaces and their relations. The Gauss-Bonnet theorem. Prerequisite: Calculus IV or equivalent. Professor Tartakoff. Tu Th 4:10-5:25.

W3940x, W3941y.

Seminar in Algebra.

Discussion and readings of topics in algebra selected according to the interests of the students and instructor. Development of research and expository skills. Strongly recommended for mathematics majors with an interest in algebra. Prerequisite: Course W3041. . . . M W 2:40-3:55.

[W3961x, W3962y.

Seminar in Analysis. Not given in 1971-72.]

**Mathematical
Statistics G4105x.**

Probability.

Fundamentals; random variables and distribution functions in one or more dimensions; the binomial, normal, and Poisson distributions; combinatorial problems; moments and characteristic functions; stochastic convergence and the law of large numbers; addition of random variables and limit theorems; the chi-square, t , and F distributions. Prerequisite: Calculus IV. M W 5:40-6:55.

**Mathematical
Statistics G4107y.**

Statistical Inference.

Principles of statistical decision procedures. Point estimation. Unbiased consistent, efficient, and sufficient estimates. Method of maximum likelihood. Testing hypotheses. Normal, binomial, and Poisson distributions. Prerequisite: G4105. M W 5:40-6:55.

Graduate Courses

Certain graduate courses given in the University are open to qualified majors with the consent of the department and the major adviser. These courses are described in the Bulletin of the Graduate School of Arts and Sciences.

<i>Professor</i>	Hubert Doris (Chairman; 703 Dodge Hall)
<i>Assistant Professors</i>	Patricia Carpenter, Gordana Lazarevich
<i>Associate in Music</i>	Daniel Paget
<i>Assistant</i>	Peter Schubert
	Officers of Columbia University offering courses open to Barnard students:
<i>Professors</i>	Jack Beeson, Howard Shanet, Vladimir Ussachevsky
<i>Associate Professors</i>	Chou Wen-Chung, Dieter Christensen, Joel Newman, Ernest H. Sanders, Christoph Wolff
<i>Assistant Professors</i>	Charles Dodge, Joel Sachs, Harvey Sollberger, Piero Weiss, Charles Wuorinen
<i>Associate</i>	Walter Sorell
<i>Instructors</i>	George Flynn, Walter Hilse
<i>Preceptors</i>	Eleanor Cory, Nicolas Roussakis
<i>Teaching Staff in</i>	Sheldon Henry, University Band
<i>Applied Music</i>	Howard Shanet, University Orchestra
	M. Searle Wright, Chapel Choir
	Daniel Paget, Barnard-Columbia Chorus

A major in music is designed to integrate music as an art and a craft within the framework of the liberal arts.

A student intending to major in music should start with Courses V2100x and V3123x as early as possible. Course 1-2, though a prerequisite for more advanced literature courses, is not required of music majors, since they cover the same type of material in greater depth in the courses already required of them.

In general, major programs are planned to include nine courses of advanced work in literature, history, and theory. Courses V2100-V2101, V2300-V2301, V2303, V2305, V3123, V3124, V3125, V3126, V3179-V3180 and V3373-V3374 are required. (Course V3239x-V3240y is required of students intending to specialize in composition.) Applied music (a maximum of one course) may be counted toward the degree but is not required.

Other fields: A reading knowledge of German, Italian, or French is required. Students planning to do graduate work in musicology, or ethnomusicology, must know at least two foreign languages, including German and French. Courses in art history, history, philosophy, literature, and foreign languages are recommended for their relationship with musical studies, and should be elected after consultation with the department.

Students are advised to consult the Bulletin of the Graduate School of Arts and Sciences for those courses open to seniors and others with advanced training.

At the end of the sophomore year students planning to major in music will be expected to file with the department certificates stating that they have passed an examination in elementary piano. A student found deficient in piano techniques is required to take supplementary piano lessons. If she is unable to pay for such lessons herself, she should consult the Director of Financial Aid. As with other applied music activities, these lessons will carry the equivalent of one quarter academic credit per semester. Majors must have participated for two years in the chorus, orchestra, choir, concert band, collegium musicum, chamber music, or other musical ensembles by the time they are graduated.

Practice rooms: The department provides practice rooms at a nominal charge. Preference in assigning hours is given in order of application to music majors and those enrolled in courses given by the department. Application for practice time should be made at the Office of Buildings and Grounds, Milbank Hall: during registration and the first week of classes by music majors, and by all others during the week following.

Library: Books, scores and records are available at the Barnard College Library. The Columbia University Music Library contains an extensive collection of music materials for reference, research, and circulation. In addition, phonographs with a large collection of recordings are also available for use by students registered in music courses other than Course 1-2.

Literature and History

1-2. An Introduction to Music.

A study of the elements of musical structure designed to form intelligent listening habits, and of the several great epochs of music, with emphasis on their style and structure. No previous knowledge of music is required. This course is not designed for students majoring in music. Professors Doris and Lazarevich, and Mr. Roussakis. Section I M W F 11. [3] Section II M W F 12. [12] Section III M W F 1:10. [4] One hour per week of supervised listening, chosen from the following: W 4:10, Th 3:10, F 2:10.

[V1004y. Literature of the Pianoforte.

Professor Sachs. Not given in 1971-72.]

V1005y. The Opera.

A rapid survey of the development of opera from Monteverdi to the present. Prerequisite: Course 1-2 or the equivalent. Professor Beeson. M W 1:10-3. One hour is a listening hour.

V1006x. The Symphony.

A survey of symphonic style and structure from about 1750 to the present. Prerequisite: Course 1-2 or the equivalent. Professor Sanders. M W 1:10-3. One hour is a listening hour.

V1007x. Music of the World's Peoples.

An introduction to musical practices of the world, excluding the tradition of Euroamerican classical music. Professor Christensen. Tu Th 2:10-4. One hour is a listening hour.

V1008y. Contemporary Music.

A survey of contemporary music from Debussy to the present. Prerequisite: Course 1-2 or the equivalent. Professor Sachs. M W 3:10-5.

V1109x, V1110y. History of Dance.

A survey of the development, history, aesthetics, and philosophy of dance, with particular reference to drama, opera, ballet, and modern dance. Lectures and demonstrations; interviews with specialists in the field and practice in selected dance movements. Prerequisite: Permission of the instructor. Registration limited to 40 students. Mrs. Roosevelt and Mr. Sorell. Tu 6:10-8:50.

V1015y. American Music.

A survey of music in America from Colonial times through the 1950's. Attention is given to the interrelationships among folk, "entertainment," and art music. Prerequisite: Course 1-2 or equivalent. Professor Newman. Tu Th 2:10-4. One hour is a listening hour.

V1017x. Stravinsky.

A survey of the work, thought and influence of this major composer of the twentieth century. Prerequisite: Music 1-2 or the equivalent. Professor Doris. M W 3:10, F 3:10-5. One hour is a listening hour.

V1617y. Electronic Music: Its Evolution and Techniques.

A comprehensive survey of electronic music from 1948 to the present, with detailed analysis of compositional techniques and their evolution and application by various groups and individual composers. Technical procedures employed in creating electronic sound materials will also be discussed. Prerequisite: Courses 1-2, V2101 and permission of the instructor. Registration limited to 25 students. Professor Ussachevsky. Tu Th 7:10-8:25.

[V3021y. Schoenberg. Professor Carpenter. Not given in 1971-72.]

[V3042. Aesthetic Disciplines in Music.

Professor Carpenter. Not given in 1971-1972.]

V3123x. History I.

Western music to the early sixteenth century. Prerequisite: Music V2100 or the equivalent. Section I Professor Newman. M W 3:10-5. One hour is a listening hour. Section II Professor Sanders. M W 5:40-7:30. One hour is a listening hour.

V3124y. History II.

Western music from the early sixteenth to the end of the seventeenth century. Prerequisite: Music V3123 or the equivalent. Section I Professor Newman. M W 3:10-5. One hour is a listening hour. Section II Professor Sanders. M W 5:40-7:30. One hour is a listening hour.

V3125x. History III.

Western music from the end of the seventeenth century to the early nineteenth century. Prerequisite: Music V3124 or permission of the instructor. Section I Professor Weiss. M W 2:10, F 2:10-4. One hour

is a listening hour. Section II Professor Wolff. W M 5:40-6:55.
One hour is a listening hour.

V3126y. History IV.

Western music from the early nineteenth century to the mid-twentieth century. Prerequisite: Music V3125 or permission of the instructor. Section I Professor Doris. M W 2:10, F 2:10-4. Section II Professor Sachs. M W 5:40-7:30. One hour is a listening hour.

V3179x-V3180y. Seminar. Historical and Analytical Studies in the Literature of Music.

Required seminar for senior majors to supplement and coordinate previous studies. Section I Professor Doris. W 4:10-6. Section II Professor Newman. Th 4:10-6.

Theory

V1329x, y. Musicianship.

The basic elements of music are studied with the aim of developing musicianship. Prerequisite: A placement examination given on Tuesday, September 28, at 10 a.m. in 710 Dodge. Professor Sachs and Messrs. Flynn and Schubert. Tu Th 4:10-5:25.

V2100x-V2101y. Theory I and II.

Principles of counterpoint; species counterpoint; triadic harmony. Examination of relevant music is included. Prerequisite: a grade of B in a placement examination given on Monday, September 27, at 10 a.m. in 710 Dodge. (The prerequisite may be satisfied with a grade of B in Music V1329.) Professors Carpenter and Lazarevich and Messrs. Hilse and Roussakis. M W F 1:10. Lab. M W 2:10.

V2300x-V2301y. Theory III and IV.

Contrapuntal practices of the eighteenth century, including double counterpoint, canon, and fugue. Harmonic practices of the later nineteenth and early twentieth centuries. Examination of relevant music will be included. Prerequisite: Music V2101 or equivalent. Professors Carpenter and Sollberger, and Miss Cory. M W F 10.

V2303x. Theory V.

Twentieth century musical practices, including investigation of coherence in non-tonal music. Examination of relevant music will be included. Prerequisite: Music V2301 or equivalent. Professor Wuorinen. Tu 2:10-4. Th 3:10.

V2305y. Theory VI.

Analysis. Principles of design, texture, rhythm and the organization of musical detail, as revealed through a study of compositions selected from several periods of music history. Prerequisite: Music V2303 or equivalent. Professor Wuorinen. Tu 2:10-4. Th 3:10.

V3239x-V3240y. Composition.

Composition in the smaller forms, for voice, chorus, piano, organ, and pieces for violin or other instruments with piano. Prerequisite: Course V2301 or written permission of the instructor. Professor Dodge. M 5:10-7.

V3241x-V3242y. Advanced Composition.

A continuation of Music V3239x-V3240y. Prerequisite: Course V3239x-V3240y or permission of the instructor. Professor Sollberger. M 3:10-5.

V3373x-V3374y. Orchestration, Conducting, and Score-Reading.

Lectures and practice in orchestration and score-reading, supplemented by practical demonstrations of instruments. Prerequisite: Course V2101 or the equivalent and written permission of the instructor. Professors Shanet and Sollberger. M W F 11.

**Performance
Activities
(Applied Music)**

A detailed description of the following activities is given in the *A Guide to Barnard*.

Academic credit, granted by petition at end of the semester, amounting to one quarter of a course per semester is given for participation in the following activities, with the exception of Music for an Hour.

Audition and rehearsal schedules for all activities will be posted outside the Columbia departmental office, at least a week before registration.

**University
Orchestra.**

Professor Shanet. Auditions: During registration week by appointment. Room 703 Dodge. Rehearsals: M 5:30-7:30 on the stage of McMillin Theatre, and M W F 5:30-7:30 in the three weeks preceding each concert.

Chapel Choir.

Mr. Wright. Auditions: Friday, September 24, from 2 to 5; Monday-Tuesday, September 27-28 from 10 to 12 and 2 to 5, in the Chapel Crypt. Rehearsals: M W F 5-6:15.

**Barnard-Columbia
Chorus.**

Mr. Paget. Auditions: During registration week by appointment. Room 703 Dodge. Rehearsals: Tu Th 6-8 p.m. in Room 304 Barnard Hall.

University Bands.

Mr. Henry. Auditions: Concert Band, during registration week and by appointment. Rehearsals: Tu Th 4-6.

Collegium Musicum.

This organization acquaints the student with certain neglected and unfamiliar masterpieces of vocal and instrumental music not heard in concerts elsewhere. Music majors are particularly urged to attend the meetings and to participate in performances.

Music for an Hour.

This series of informal chamber concerts, held the last Tuesday in every month in the James Room of Barnard Hall, is designed to give all interested instrumentalists a chance to perform for the University community. All those interested in participating should consult the department.

Chamber Music.

Professor Lazarevich. Groups for informal performance will be formed at the beginning of the year.

<i>Professor</i>	John Meskill (Chairman; 321A Milbank Hall)
<i>Assistant Professor</i>	Barbara Stoler Miller
	Officers of Columbia University offering courses open to Barnard students:
<i>Professors</i>	Wm. Theodore de Bary, Chih-Tsing Hsia, Ivan Morris, Burton Watson, Alex Wayman
<i>Adjunct Professor</i>	Arthur S. Lall
<i>Associate Professors</i>	H. Paul Varley, Herschel F. Webb
<i>Adjunct Associate</i>	
<i>Professor</i>	Philip B. Yampolsky
<i>Assistant Professors</i>	Kathleen R. F. Burrill, David Johnson, Theodore Riccardi, Jr., Jeanette Wakin
<i>Preceptors</i>	Franklin Doeringer, Robert Gimello, Peter Roux, Rodney Taylor, Frederick Underwood

Oriental Studies aims to provide, by means of the first three courses listed below, an introduction to major aspects of four living Asian civilizations. These courses are designed for any student, whatever her major, who wishes to include knowledge of Asia in her education.

Foreign Language Requirement for the Degree: The satisfactory completion of one of the following courses satisfies the requirement in the respective language: Arabic W1122y, Chinese G4006y, Japanese W4006y, Persian W1122y, Sanskrit G6102y, or Turkish W1122y.

Majors in the program will be prepared for further study in graduate school or some other related professional training. They will concentrate on one of the following regions or countries: the Middle East, India, China, or Japan.

The Middle East.

- (a) As a prerequisite, to be completed by the end of the sophomore year, Oriental Civilizations V3001x-V3002y.
- (b) Four to six courses of Arabic, Persian, or Turkish; details to be explained by the adviser.
- (c) Four additional courses on the Middle East, to be chosen in consultation with the adviser.
- (d) One course in supervised readings, to be arranged in consultation with the adviser.

India, China, or Japan.

- (a) As a prerequisite, to be completed by the end of the sophomore year, Oriental Civilizations V3355x-V3356y.
- (b) Four to six courses of an appropriate Oriental language; details to be explained by the adviser.
- (c) Two courses on India, China, or Japan in one discipline.

(d) Two more courses above the introductory level in the same discipline as chosen under subsection (c), for training in the discipline; to be chosen in consultation with the adviser.

(e) Two courses in senior seminar, or one course in readings and one in senior seminar, or one course in senior and Oriental Humanities V3399x-V3400y.

Majors in the program come under the administration of the Committee on Foreign Area Studies. For admissions procedures and other details, see page 52.

**Oriental
Civilizations
V3355x-V3356y.**

Introduction to the History and Culture of Oriental Societies.

The more important factors in the life of peoples of India, China, and Japan, and an appraisal of their role in the world today. Autumn Term: The evolution of these civilizations to recent times, emphasizing their characteristic institutions and intellectual traditions. Spring Term: Developments in the nineteenth and twentieth centuries as these societies have confronted the problems of modernization. Fourth hour: Lectures and audio-visual illustrations. Prerequisite: one course in history or permission of the instructor. Professors de Bary, Lall, Meskill, Miller, Riccardi, Varley, and Webb, Messrs. Doeringer, Gimello and Roux. Section I M W F 9. Section II M W F 10. Section III M W F 11. Fourth hour W 12.

**Oriental Humanities
V3399x-V3400y.**

Colloquium.

A selection from the works of Near Eastern, Indian, Chinese, and Japanese authors. This course will be conducted as a colloquium and will be devoted to readings in translation and discussion of major works in the literature, philosophy and religion of several Oriental traditions. The Autumn Term will deal with works from the Near East and India; the Spring Term with readings from China and Japan. Open to juniors and seniors who have completed two courses of literature and one course of philosophy or religion, or have written permission of the instructor. Professors de Bary, Hsia, Johnson, Meskill, Miller, Wakin, and Yampolsky, and Messrs. Doeringer, Gimello, Taylor, and Underwood. Section I Tu 3:10-5. Section II W 2:10-4. Section III Th 3:10-5. Section IV Th 7:10-9 p.m. Section V F 1:10-3. Section VI M 2:10-4.

**Oriental
Civilizations
V3001x-V3002y.**

Introduction to Islamic Civilization.

Autumn Term: An examination of Islamic civilization. Its institutional and intellectual characteristics to A.D. 1800. Spring Term: Important factors, such as the impact of the West and nationalism, on the Islamic peoples from 1800 to the present. Professor Burrill. Tu Th 12-1:15.

**Oriental Studies
V3379x.**

Readings in Oriental Studies.

Colloquium on major problems of Asian civilizations. Focus for 1971-72: The relative roles of male and female. An examination, through literary and historical sources, of the principal relationships of men and women—as lovers and companions, wives and husbands, mothers and fathers, and in their special roles in religious and mundane life—in traditional and modern India, China, and Japan. Prerequisite: Oriental Civilizations V3355x-V3356y. Professors Meskill and Miller. W 3:10-5.

**Oriental Studies
V3402y.**

Indian Literature in Translation.

The art of the storyteller. Traditional and modern Indian narrative literature will be used as a medium to introduce the student to

various aspects of Indian culture. Special emphasis will be given to the forms of myth, folktale, epic, romance, and fable in relation to the development of the novel in India. Open to all except freshmen. Professor Miller. M 11-12, F 11-1.

[History

G4525x-G4526y.

Chinese History

G6815x, G6816y.

Oriental Studies

V3501x-V3502y.

Oriental Studies

V3507x, V3508y.

Political Science

24.

Supplementary

Courses for the

Major

Arabic

W1101x-W1102y.

Chinese

C1101x-C1102y.

Chinese

C1201x-C1202y.

Chinese

G4005x-G4006y.

Chinese

G4031x-G4032y.

[Chinese

G4033y.

Chinese-History

G6825x, G6826y.

History of Modern India

Professor Gordon. Not given in 1971-72.]

Introduction to the Civilization of China.

An examination of Chinese history from ancient times to the beginning of the seventeenth century, with special attention given to characteristic political, economic and social developments. Permission of Professor Meskill required. Professor Bielenstein. M W 11.

Seminar in Asian Literature.

Autumn Term: Selected themes of Chinese, Japanese, and Indian poetry. Spring Term: Selected topics in the contemporary literature of China, Japan, India, and the Near East. Open to juniors and seniors with the permission of Professor Meskill or Miller. Instructor to be announced. F 2:10-4.

Seminar on Comparative Studies in Asian Civilizations.

Autumn Term: Concepts of Asia in European and Asian social and historical thought. Spring Term: Studies in the modernization of the traditional societies of China, Japan, and India. Permission of Professor Meskill or Varley required. Professor Varley and Messrs. Doeringer and Roux. W 2:10-4.

Students interested in Oriental Studies may want to consider the following course:

Asian Political Systems.

Professor Dalton. Tu Th 10:35-11:50.

Majors normally choose, with the approval of their advisers, additional courses in Columbia University to complete the major requirements. Listed below are courses frequently appropriate for this purpose. For further information, consult the adviser.

Elementary Arabic.

Professor Madina. M 6:40-7:55 p.m. Th 6:10-7:25 p.m.

Elementary Chinese.

Mrs. Chang Sobelman. Section I M Tu W Th F 9. Section IIa M Tu W Th F 10. Section III M Tu W Th F 11.

Intermediate Chinese.

Mr. Yeu. M Tu W Th F 10.

Advanced Chinese.

Mr. Lo and Miss Pan. Section I M W 11-12:50. Section II M W Th 5:40-7:05.

Chinese Literature.

Professor Hsia. Tu Th 10.

Contemporary Chinese Literature.

Professor Hsia. Not given in 1971-72.]

History of Modern China.

Professor Wilbur. M 2:10-4.

Chinese	Introduction to Chinese Thought.
G6027x-G6028y.	Professor de Bary. M 2:10-4.
History-Japanese	Japan in the Twentieth Century.
G6840y.	Professor Tiedemann. W 2:10-4.
History-Japanese	Early Japan.
G6832x.	Professor Morris. Tu Th 11.
Japanese	Elementary Japanese.
C1101x-C1102y.	Professor Lange. M W F 11-12:25.
Japanese	Intermediate Japanese.
C1201x-C1202y.	Mrs. Ch'en. M Tu W Th F 9.
Japanese	Advanced Japanese.
W4005x-W4006y.	Professor Shirato and Mrs. Ch'en. Section I M W F 11-12:25. Section II M W F 6:10-7:35.
Japanese	Japanese Literature.
G4031x.	Professor Keene. Tu Th 10.
Japanese	Japanese Literature.
G4032y.	Professor Ryan. M W 10.
[Japanese	Introduction to Japanese Thought.
G6027-G6028y.	Professor de Bary. Not given in 1971-72.]
Persian	Introduction to Persian Literature.
G4602y.	Professor Yar-Shater. Tu 2:10-4.
Sanskrit	Elementary Sanskrit.
G4101x-G4102y.	Professor Miller. M W 12-2.
Sanskrit	Sanskrit II.
G6101x-G6102y.	Professor Riccardi. M W 12-2.



<i>Professors</i>	Joseph Gerard Brennan, Mary Mothersill (Chairman; 326D Milbank Hall)
<i>Associate Professor</i>	Sue Howard Larson ¹
<i>Assistant Professor</i>	Onora Sylvia Nell

¹ Absent on leave, Spring Term.

The major in philosophy is designed to develop competence in techniques of conceptual analysis and to acquaint the student with the major areas for investigation in traditional and contemporary philosophic theory.

Within the limits of the prerequisites described below, philosophy courses may be taken in any sequence: the numbers assigned to particular courses indicate roughly the level of competence expected of students. (Transfer students who wish to count courses taken elsewhere as prerequisites for Barnard courses must have written permission from the Chairman of the Philosophy Department and may be required to take a placement test.)

A student who majors in philosophy is required to take the following courses or their equivalents: 1; 5 or 32; 8 or 77; one of the following combinations: 35 and 36, 35 and 2x, 36 and 2x; one elective course; and in the senior year, the seminar, 87-88. Qualified senior majors are permitted to enroll in philosophy courses offered by the Graduate School of Arts and Sciences of Columbia University. Permission for such enrollment should be obtained from the chairman of the Barnard department.

- 1x (or 1y).

Introduction to Philosophy.
Interpretation and analysis of major topics in ethics, metaphysics, theory of knowledge. Readings from historical and contemporary sources. Professors Brennan, Mothersill, and Nell. Section I M W F 9 (fall term only). [1] Section II M W F 10. [2] Section III M W F 11. [3] Section IV Tu Th 10:35-11:50. [7] Section V M W F 12:10. [12].
- 2x, 2y.

First-Year Seminar.
Autumn Term: Intensive study of selected works of Plato. Spring Term: An analysis of the concept of death. Readings from traditional and contemporary sources. Limited enrollment. Prerequisite: Course 1 or permission of the instructor. Autumn Term: Professor Larson. Spring Term: Professor Mothersill. Tu Th 2:30-3:25.

[0]
5.

Logic I.
Presented as a formal science, logic will be distinguished from the methodology of the empirical sciences. Analysis of the formal elements of classical logic will be followed by an introduction to symbolic logic. Professor Brennan. M W F 1:10.

[4]

- 8. Ethics.** [6]
An introduction to the central problems of moral philosophy. Among the topics covered are: action and reasons for action; pleasure and pain; obligation, rights and duties; alternative moral ideals; the use of moral language. Prerequisite: Course 1 or permission of the instructor. Professor Mothersill. Tu Th 9:10-10:25.
- 32. Logic II.** [9]
An introduction to symbolic logic through quantification theory. Explication of concepts such as: sentential interpretation; truth; consequence; validity; consistency; tautology; derivation. Gödel's Incompleteness Theorem. Issues in the philosophy of logic. Prerequisite: Course 5 or permission of the instructor. Instructor to be announced. Tu Th 2:10-3:25.
- 33. The Concept of Beauty.** [6]
A systematic analysis of critical reasoning and the judgment of taste. Selected readings from contemporary sources. Prerequisite: Course 1 or permission of the instructor. Professor Mothersill. Tu Th 9:10-10:25.
- 35, 36. History of Modern Philosophy.** [2]
Autumn Term: Conceptions of scientific method; the continental rationalists. Readings include selections from Descartes, Hobbes, Spinoza and Leibniz. Spring term: Moral and political philosophy; theory of knowledge. Readings include selections from Locke, Berkeley, Hume and Kant. Either term may be taken separately. Professor Nell. M W F 10.
- 38. Twentieth Century Philosophy.** [5]
A study of contemporary issues in Anglo-American philosophy. Readings include selections from Moore, Russell, Strawson, Wittgenstein, Austin, Ryle, Quinton, Searle and Chomsky. Instructor to be announced. M W F 2:10.
- 39, 40. Supplementary Readings in Philosophy.** [0]
To be taken only with the consent of the instructor and permission of the department.
- 43, 44. Philosophical Implications of the Modern Novel.** [3]
Autumn Term: Reading of Schopenhauer's *The World as Will and Idea* and three works of Nietzsche, followed by a study of Thomas Mann's *The Magic Mountain*, accompanied by a reading of other Mann works. Herman Hesse's novels are discussed with particular attention to *Steppenwolf* and *The Glass Bead Game*. Spring Term: The Flaubert-Joyce theory of art and the artist is compared to the views of Tolstoy and Henry James. The relation of Bergson's philosophy to the work of Gide and Proust is examined, and certain novels of the French "Mandarins" are read. A small number of twentieth-century English and American novels will be read with reference to implicit ideologies and world views. Either term may be taken separately. Not open to freshmen. Professor Brennan. M W F 11.
- 49. Phenomenology and Existentialism.** [9]
A study of representative authors of nineteenth and twentieth century continental philosophy. Readings include selections from Kierkegaard, Nietzsche, Brentano, Meinong, Husserl, Heidegger, Merleau-Ponty and Sartre. Prerequisite: Course 1 or permission of the instructor. Instructor to be announced. Tu Th 2:10-3:25.

75. **Social Philosophy.** [5]
Problems of contemporary social thought and theory. Among the topics covered are: ideology, alienation, political and cultural revolution, anarchism, aggression, and human rights. Readings include selections from Rousseau, Marx, Proudhon, Nietzsche, Sorel, Marcuse, Storr, Cohn-Bendit and Susan Sontag. Prerequisite: Course 1, 5, 8 or permission of the instructor. Instructor to be announced. M W F 2:10.
77. **Theory of Knowledge.** [7]
A general account of the concepts of belief, knowledge, evidence, judgment and error. Readings from contemporary and classical sources. Prerequisite: Course 1, 5 or permission of the instructor. Professor Nell. Tu Th 10:35-11:50.
79. **Theory of Meaning.** [5]
Consideration of the problems of constructing a theory of meaning for a natural language. Readings from Frege, Tarski, Quine, Davidson, Austin and others. Prerequisite: Course 1 or 5 or permission of the instructor. Professor Larson. M W F 2:10.
- [82. **Metaphysics.** Professor Larson. Not given in 1971-72.]
84. **Philosophy of Education.** [4]
Classical readings include Plato's *Republic* and Rousseau's *Emile*. The idea of individualism, in both its European and American forms, is traced from Rousseau to Dewey, leading to discussion of problems in present day American educational ideology. Selected readings are assigned concerning ideas of "middle class" and black education. Discussion of theories of higher education is supported by readings from Newman's *The Idea of a University* as well as some related to recent events in American universities. Professor Brennan. M W F 1:10.
- 87-88. **Senior Seminar.** [0]
An intensive study of selected philosophical classics. Discussions, oral reports and term papers. Required of all majors in their senior year. Autumn Term: Professor Larson. Spring Term: Professor Nell. W 3:10-5. Conference hours to be arranged.

**Columbia College
and School of
General Studies
Courses**

- W1103x-W1104y. **The History of Philosophy.**
A survey of the positions of the major philosophers. Autumn Term: Thales through St. Augustine. Spring Term: St. Thomas through Kant. Either term may be taken separately. Mr. Walsh. M W 2:40-3:55.
- W3112x. **Philosophy of Mathematics.**
Philosophical issues concerning mathematics, such as Platonism, the role of proof, the epistemological status of mathematical statements, logicism, formalism and Gödel's theorem. Prerequisite: One term of formal logic or a background in mathematics. Mr. Steiner. M W F 11.

W3177y. Philosophy of Language.

Philosophical significance of recent theories of grammar and language acquisition. Problems of translation, universal grammar and canonical form. Basis in formal grammars of such philosophical concepts as causality, natural kinds, and performatives. Readings from Aristotle, Jespersen, Chomsky, Quine, Wittgenstein and others. Mr. Higginbotham. M W F 10.

W3110x. Aesthetics.

Expression theories of art (Hegel, Nietzsche, Croce, Freud); the meaning of "Modern" (Kant and Heidegger); imitation theories of art (Plato and Aristotle). Contemporary theories of criticism. Open to students in philosophy, literary disciplines and art history. Mr. Kuhns. Tu Th 11-12:15.



<i>Assistant Professor</i>	Marion R. Philips (Chairman; 209 Barnard Hall)
<i>Associates</i>	Sandra Genter, Edith G. Mason, Jeanette S. Roosevelt
<i>Instructors</i>	Alice Braunwarth, Gay Delanghe, Barbara Fitts, Linda Lerner
<i>Part-Time</i>	Janet Soares

The program is organized and administered by the Department of Physical Education in cooperation with the Medical Department and the Recreation and Athletic Association. It is designed to provide the students with knowledge, skills, habits, and attitudes concerning health, physical activity, and recreation.

The Faculty requires the completion of six semesters of physical education from the time of admission as freshmen, four semesters from the time of admission as sophomores, and two semesters from the time of admission as juniors. Students are not recommended for the degree if they fail to fulfill this requirement.

Medical examinations and posture analysis: Two complete medical examinations by the College Physician are required of all students during the four years. One complete posture examination is given by the Department of Physical Education upon entrance. Subsequent posture examinations will be given whenever indicated. The results of these examinations are expressed in terms of a health and activity grade which determines the program best suited to the individual.

Requirement: For freshmen, sophomores, and juniors: two hours per week on different days.

Seniors may participate in any courses offered.

Registration: Held simultaneously with registration for academic courses. See College Calendar for specific dates, pages 7-8. Students who fail to register for physical education by the close of the registration period are subject to the fine for late registration.

Program of activities: The program is posted on the Physical Education bulletin board two weeks prior to the registration dates.

Activities offered each semester: Archery, badminton, Balkan folk dance, ballet, basketball, body conditioning, bowling, corrective exercises, diving, fencing, folk dance, golf, Israeli dance, jogging, modern dance, movement education, relaxation, self-defense, swimming — all levels and speed swimming, synchronized swimming, Red Cross lifesaving, water safety instructor's course — tennis, volleyball, and yoga.

Activities are offered as full-semester courses.

During the autumn and spring seasons, outdoor tennis, golf and archery are offered.

In all of these activities students are advised to register according to their skill level, i.e., beginning, intermediate or advanced.

A Guide to Barnard contains the complete offerings of the department.

Prescribed costume: Students are required to wear the costumes indicated for the various activities. Approximate cost is \$23.

The following courses are offered for academic credit:

Dance 3. Form in Dance Composition.

Study of the development of dance form through the manipulation, according to formal composition principles, of rhythm, energy and design in movement. Prerequisite: written permission of the instructor. Mrs. Soares. M 6-8, F 11-1.

Dance 4. Content in Dance Composition.

Research in the source materials of dance composition and of their uses in choreography. Sources include gesture, movement texture, rhythmic structure, movement shape, and literary ideas. Emphasis upon unity of style in the work of each student. Prerequisite: Dance 3 or equivalent study elsewhere. Admission with approval of the instructor. Mrs. Soares. M 6-8, F 11-1.

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|----------------------------|--|
| <i>Professor</i> | Polykarp Kusch |
| <i>Visiting Professor</i> | Samuel Devons (Director of History of Physics Laboratory), |
| <i>Associate Professor</i> | Richard M. Friedberg (Chairman; 503 Altschul Hall) |
| <i>Assistant Professor</i> | Sigalia Dostrovsky |
- Officers of Columbia University offering courses open to Barnard students:
- | | |
|-----------------------------|--|
| <i>Professors</i> | Paolo Franzini, Sven Hartmann, Joaquin M. Luttinger, Robert Novick, Allan M. Sachs, C. S. Wu |
| <i>Associate Professors</i> | Charles Baltay, William Happer, W. Y. Lee |
| <i>Assistant Professors</i> | J. Roger P. Angel, Jeffrey Appel, Robert Guernsey, Riley Newman, Richard Wolff |
- The department offers five distinct introductory sequences, only one of which may ordinarily be taken for credit.
1. Physics C1001-C1002 is designed for liberal arts students who wish to achieve a qualitative understanding of the science; taken with laboratory (Physics 1, 2) it satisfies the science requirement of Barnard College. (See also Physics 5, 6.)
 2. Physics C1003, C1004 is suitable for premedical students who really cannot cope with the elements of calculus, or cannot arrange to take Physics 3, 4.
 3. Physics 3, 4 is intended for students majoring in other sciences, or premedical students with a minimal background in calculus. It will be given on a slightly higher level than Physics C1003, C1004, but is not recommended as a foundation for more advanced work in physics.
 4. An entering student with a serious interest in physics should enroll in the autumn term in Physics C1006x, which begins a four-term sequence (C1007y or C1107y, C1011x, C1012y) leading to more advanced courses.
 5. Freshmen with exceptional aptitude for physics and a good mathematical background may be admitted into the two-semester sequence, Physics C1021, C1022, which serves by itself as an introduction to the W3000 courses. Admission is by special interview with the instructor. A student interested in this course should, if possible, attend the "Physics Placement Meeting" announced in the Columbia College Freshman Week Program.

The program of study beyond the C1000 level, leading to a major in physics, is worked out individually with the department. Normally it includes Physics W3003, W3007, W3008, G4015, G4016, some intermediate lab work, and W3072, plus one or more additional courses at the G4000 level. Four terms

of calculus are essential, and some additional work in mathematics is recommended. The program should also include a year of chemistry, although in some instances astronomy or biology may be substituted. The major examination consists of the Undergraduate Record Examination in physics and a one-hour oral examination.

1, 2. History of Physics Laboratory. (Elementary.)

A selection of experiments illustrating discoveries, measurements and concepts which have played a major role in the development of physics. These experiments are performed and reviewed with regard to their actual historical context. No credit. Professor Dostrovsky. Hours to be arranged.

C1001x, C1002y. Elementary Physics.

An introductory treatment of the major discoveries and theories of physics and their historical development. C1001: classical (17th century) physics. C1002: contemporary (20th century) physics. This course does not fulfill the physics requirement for admission to medical school. It is primarily addressed to non-science students. This course together with Physics 1, 2 fulfills the Barnard science requirement. Professor Newman. Lec. Tu Th 11-12:15. Discussion: 1 hour to be arranged.

3, 4. General Physics. [2]

Autumn Term: Mechanics, heat, and optics. Spring Term: Electricity, magnetism, and modern physics. Prerequisite: high school mathematics; some knowledge of the elements of calculus is recommended. Professor Friedberg and assistants. Lec. M W F 10. Three hours of laboratory and one recitation hour, to be arranged at the first meeting of the class. Laboratory is required of all students wishing to receive credit for the course.

C1003x, C1004y. General Physics.

The study of matter and motion; energy and heat, electricity, magnetism, optics, and atomic and nuclear physics. Professor Appel. Lec. M W 11. Recit. F 11 or 12. Lab: 3 consecutive hours to be chosen from M Tu W Th F 1:10-4 or 4:10-7. Recitation and laboratory sections are arranged after the first class meeting in 301 Pupin on Friday, September 30, at 11.

5, 6. Discovery and Experiment in Physics. [7]

Experimental work in the History of Physics Laboratory together with readings and discussions on historic experiments in physics. Critical study of primary sources and a paper on some specific topic. This course fulfills the Barnard science requirement. Professors Devons and Dostrovsky. Lec. Th 10:35-11:50. Three hours of laboratory to be arranged.

C1006x. General Physics I. Mechanics.

Fundamental laws of mechanics: kinematics; dynamics; work and energy. Parallel: Calculus I or the equivalent. Professors Baltay and Angel. Lec. and Recit. M W F 9. Lab. to be arranged.

C1007y. General Physics II. Electricity and Magnetism.

Electrostatics; direct currents; electromagnetism; alternating currents; wave motion. Prerequisite: C1006. Parallel: Calculus II

or the equivalent. Professor Guernsey. Lec. and Recit. M W F 9. Lab. to be arranged.

C1107y. General Physics II. Electricity and Magnetism.

The topics of Physics C1007 are considered in greater depth, with less time spent on routine applications and with extended treatment of some of the more advanced topics. Prerequisites: same as for C1007y. Professor Angel. Lec. and Recit. M W F 9. Lab. to be arranged.

C1011x. General Physics, III: Optics and Thermodynamics.

Acoustical waves; nature of light; polarization; geometrical optics; interference and diffraction of light; heat; states of matter; gas laws; the laws of thermodynamics; kinetic theory of gases. Prerequisite: C1006. Parallel: Mathematics C1201 or C1203. Professors Novick and Guernsey. Lec. Tu Th 9. Recit. 1 hour to be arranged after the first meeting. Lab. to be arranged.

C1012y. General Physics IV: Modern Physics.

Quantum effects; atomic structure and spectra; nuclear structure and reactions; fission and fusion; elementary particles. Prerequisite: C1011x and C1007 or C1107. Professor Novick. Lec. Tu Th 9. Recit. 1 hour to be arranged after the first meeting. Lab. to be arranged.

C1021x, C1022y. General Physics.

Mechanics, heat, electricity, magnetism, light and modern physics. Prerequisite: advanced placement in mathematics or some knowledge of differential and integral calculus, and the permission of the departmental representative. (A special placement meeting is held during Freshman Orientation.) Intended primarily for freshmen with special ability in mathematics and physics. Professor Wolff. Lec. M W 4:10-5:25. Lab. to be arranged.

11, 12. History of Physics Laboratory.

Some of the experiments which played a major role in the logical and historical development of physics are conducted essentially in their original form and with proper attention to their historical context. Study of the appropriate historical material accompanies the laboratory work. Prerequisite: A good basic knowledge of physics and permission of the instructor. Work in this course may be done in conjunction with Physics W3081x or y. Professors Devons and Dostrovsky. Hours to be arranged.

32. The Origins of Vibration Theory: Physics and Music.

Topics in the historical development of vibration theory. Antiquity: mathematical theories of music. Seventeenth century: interaction between physics and music; formation of the concepts of frequency, harmonics, propagation. Eighteenth century: analysis of the vibrating string and the propagation of sound. Nineteenth century: harmonic analysis; the principle of superposition; vibrations of surfaces and solids—experiment and theory; investigation of consonance, dissonance, and tone color. Prerequisite: C1011 or permission of the instructor. Professor Dostrovsky. Hours to be arranged.

W3003x. Mechanics.

Newtonian mechanics; conservative forces and potentials; oscillations; central forces. Prerequisite: general physics and integral calculus. Professor Devons. M W F 10.

W3007x, W3008y. Theory of Electricity and Magnetism.

A discussion of the phenomena of electrostatics, current flow, and electromagnetism, and the description of these phenomena in mathematical terms. The treatment is directed toward the formulation of Maxwell's equations and includes some application of general principles to phenomena associated with lumped-impedance circuits, transmission lines and plane electromagnetic waves. Prerequisite: an introductory course in electricity and magnetism (C1007 or equivalent). Professor W. Lee (W3008).
Lec. Tu Th 9:35-10:50.

W3072y. Seminar in Current Research Problems.

A detailed study of a selected field of active research in physics. The motivation, techniques, and results obtained to the present, as well as the difficulties and unsolved problems. Prerequisite: Permission of the department representative. Professor . . .
Th 4:10-5:25.

W3081x or y. Intermediate Laboratory Work.

Experiments are available in physical optics, electronic circuits, atomic physics, and nuclear physics. An individual program of experiments is arranged for each student in accordance with her interests and previous experience. Immediately after registration and not later than the end of the second day after the beginning of classes, registrants should consult the staff member in charge about assignment to a laboratory section and the schedule of experiments to be performed. Professors Franzini and Sachs. One four-hour period weekly. Hours to be arranged by the instructor.

Graduate Courses The following G4000 courses form an integral part of the undergraduate major program in Physics:

G4001x. Some Topics in the History of Physics: 17th to 20th Centuries. (Seminar)

Theories of light (17th-18th centuries), early studies of electricity (18th century), mechanics and electromagnetism (18th-19th centuries), electrotechnology (19th century), fluid motion and development of thermodynamics (19th century), evolution of atomic concepts (17th to 20th centuries), physics and living matter (17th to 19th centuries). Prerequisite: C1006, C1007, C1011, C1012, or permission of the instructor. Professor Devons. Hours to be arranged.

G4003y. Lagrangian Mechanics.

Generalized coordinates; Lagrange's and Hamilton's equations with applications including rigid bodies. Normal coordinate treatment of coupled systems. Prerequisites: integral calculus and differential equations and W3003 or equivalent. Professor . . . M W F 10.
Problem session (optional): hours to be arranged.

G4009x. Light.

Physical and geometrical optics. Prerequisite: general physics and integral calculus. Professor Luttinger. M W F 10.

G4013x. Thermodynamics.

General principles of thermodynamics; the three fundamental laws; definition of entropy and the thermodynamic potentials; simple

application of thermodynamics; microscopic interpretation of thermodynamics. Prerequisite: W3003 and W3007. Parallel: G4015. Professor Hartmann. Tu Th 2:40-3:55.

G4015x, G4016y. Atomic Physics and Introductory Quantum Mechanics.

Spectroscopic and other phenomena which form the experimental basis of modern atomic physics. The interpretation of atomic structures and radiation phenomena in terms of the quantum theory. Elementary wave mechanics is developed and applied to simple atomic structures and to potential well and barrier problems. Atoms in applied fields and the interactions in many electron atoms are treated by perturbation theory. The theory of spin and angular momentum. Prerequisite: C1006, C1007, C1011, C1012, or their equivalents, and two additional terms of course work in intermediate or advanced physics. Professor Happer. M W F 9. Problem session (optional): hours to be arranged.

G4040y. Nuclear Physics.

An introductory course in nuclear physics. General properties of nuclei, the systematics of stable nuclei, the two-body problem at low energies and nuclear forces, alpha radioactivity, beta decay, emission of electromagnetic radiation and selection rules, nuclear shell structure, phenomena associated with the passage of nuclear radiations through matter and methods of detection, high-energy accelerators, nuclear reactions and artificial radioactivity, neutrons and nuclear fission, properties and interaction of mesons. Prerequisite: G4015 or the equivalent. Professor Wu. Tu Th 11-12:15.

G4050y. Elementary Particle Physics.

A basic treatment of elementary particle physics with an emphasis on the experimental point of view: classification and properties of the particles; strong interactions of strange and nonstrange particles; weak interaction; symmetry principles. Prerequisite: G4015x. Professor Baltay. M W 2:40-3:55.

<i>Professor</i>	Demetrios Caraley (Chairman; 409 Lehman Hall)
<i>Associate Professors</i>	Dennis Dalton, Peter H. Juviler
<i>Assistant Professors</i>	Barnett Baron, John T. Elliff
<i>Lecturers</i>	Annette B. Fox
<i>Instructors</i>	Lynn Davis, Bruce Feld, Elizabeth Howe
	Officers of Columbia University offering courses open to Barnard students:
<i>Professors</i>	Charles V. Hamilton, Roger Hilsman, Harvey C. Mansfield
<i>Assistant Professor</i>	Ira Katznelson ¹
<i>Instructors</i>	Stuart Fagan, Donald Haider, Richard Pious

¹ Absent on leave, 1971-72.

The purpose of the study of political science is to develop understanding of the basic political institutions and processes in human society. This understanding involves analysis and evaluation of political systems in the context of the challenges they face and the changes they undergo. The major is designed to equip the student to play an effective role as citizen in a democratic political order, to participate more actively in political life as public or party official, civil servant, lawyer, or political commentator, or to undertake graduate training in political science in preparation for a career in college teaching.

A student majoring in political science is required to take a minimum of nine semester-courses in the Department, including Courses 1; either 2, 11, 13, or 14; and 45. A student majoring in urban studies with a concentration in political science is required to take a minimum of six semester courses including Courses 1, V3313, and two from among: 26, 27, 28, V3407. In order to explore more adequately the techniques of scholarly investigation and to have the opportunity of independent specialized work, both majors and concentrators are required to write a senior essay as part of the work for the senior research seminar (either Course 61-62 or V3711x-3712y).

The department's requirements are flexibly drawn so as to permit a major in consultation with her adviser to plan an overall program that, while providing some background in various areas of government and politics, can place special emphasis on such particular interests as the American political system (including its urban subsystem), foreign political systems, international relations, or political theory.

Other social sciences: In view of the essential unity of the social sciences, students majoring in political science are urged to take at least three courses from among the following departments as

selected in conference with the adviser: anthropology, economics, history, sociology.

General Courses Courses listed under this heading may be taken without previous study of political science.

1. Dynamics of American Politics. [3]

An introduction to political dynamics through an examination of the American political system at the national level. Particular attention is given to how political officials are chosen and replaced, how governmental decisions are made, and how governmental performance affects demands on and support for the political system. Mr. Feld (in charge) and other members of the department. Lectures M W 11. Discussion groups (choose one): M 2:10, 3:10; Tu 11; W 12:10, 1:10; F 10, 11.

Sign-up sheets for discussion groups at different hours are posted outside 408 Lehman.

2. Comparative Politics. [3]

Examination of basic approaches to the study of comparative politics and analysis of selected political systems in Europe and Africa. Professor Baron and Juviler (in charge). M W 11 and discussion sections to be arranged.

[3. Workshop in Electoral Politics.

Not given in 1971-72, to be given in 1972-73.]

4. Freshman Seminar in Government. [0]

Intensive study of a topic to be selected by the instructor. The aim of the course is to acquaint students with the methods and sources of political science and to provide experience in discussion and writing. Topics for Spring 1971, instructors, and hours to be announced in December.

7. Modern Political Movements. [7]

A tentative inquiry into the roles of deviance and dissent in organized society, and the types of political movements; selective case studies of movements such as anarchism, Marxism, fascism, nationalism, and movements of racial or ethnic self-assertion. Professors Dalton and Juviler (in charge). Lec. Tu Th 10:35-11:50. Optional discussion groups at hours to be arranged.

V3313y. American Urban Politics. [5]

Patterns of government and politics in America's large cities and suburbs. Analysis of the influence of party leaders, local officials, social and economic notables, racial, ethnic and other interest groups, the press, the general public, and the federal and state governments. The impact of urban governments on ghetto and other urban conditions. Professor Caraley (in charge) and Mr. Feld. Lec.: M W 2:10 and periodic discussion sections to be arranged.

10. Workshop in Urban Politics. [0]

Intensive study of selected aspects of urban government and politics. Each student will carry out a special research project based in part on actual participation in or first-hand observation of some element of urban governmental and political activity. Prerequisite or co-requisite: V3313 and permission of the instructor. Professor Caraley. Bi-weekly meetings. Th 4:10-6.

11. International Politics. [5]

An exploration of the basic setting and dynamics of global politics, with emphasis on contemporary problems and processes. Open to freshmen with permission of the instructor. Mrs. Davis. M W 2:10-3:25.

13, 14. Political Theory. [9]

Analysis of major political writings from Plato to the present. Emphasis is on a comparison of basic ideas and concepts. Course 13 is prerequisite to Course 14. Professor Dalton. Tu Th 2:10-3:25.

Specialized Courses

American Government and Politics

[15y. The Making of American Foreign and Military Policy.

Mrs. Davis. Not given in 1971-72.]

25. The Judicial Process. [6]

Analysis of the process of judicial decision-making and the role of courts and judges in the American political system. Prerequisite: Course 1 or permission of the instructor. Professor Elliff. Tu Th 9:10-10:25.

26. Problems in Civil Rights and Liberties. [6]

Analysis of the political and legal context for current issues in freedom of speech and religion, racial discrimination, the right to privacy, and criminal law enforcement. Prerequisite: Course 1. Professor Elliff. Tu Th 9:10-10:25.

27. Colloquium on the Content of American Politics. [2]

Readings, discussions, and reports on the major policy conflicts in American national politics in recent decades and especially since 1960. Prerequisite: Course 1 or V3313. Mr. Feld. F 10-11:50.

28. Colloquium on Congressional Politics. [9]

The interrelations of structure, process, and policy output in the American Congress, including the legislative role of the President. First-hand examination of hearings, reports, debates and voting patterns, and preparation during reading period of case studies on individual bills. Prerequisite: Course 1 or V3313. Instructor to be announced. Tu 2:10-4.

F3311x. The American Party System.

Ways by which interests outside government achieve political influence at the national level; factors which promote stability and legitimacy in an age of rapidly growing demands. Primary emphasis on political parties, with attention to political participation, interest groups, and electoral behavior. Prerequisite: Course 1 and junior standing. Mr. Haider. M W 4:10-5:25.

C3312x. Executive Politics and Decision-making.

An analysis of interagency politics and bargaining within the executive branch of the national government of the U.S. and its implications for the public policy process. Prerequisite: Course 1. Mr. Pious. M W 2:10-3:25.

[C3315x. Studies in Urban Political Problems and Policies.

Professor Katznelson. Not given in 1971-72.]

V3407y. Colloquium on Urban Black and Minority Politics.

Comparative analysis of the politicization of urban ethnic groups, with emphasis on the emerging political patterns and problems of black urban communities. Open only to Barnard and General Studies students. Prerequisite: Course 1 or V3313y, and junior standing. Enrollment limited, sign-up sheet on bulletin board, 408 Lehman. Professor Hamilton. Th 10-11:50.

Foreign Governments and Politics**17. Colloquium on the Study of Comparative Politics. [5]**

A review of several approaches to the comparative study of political institutions and behavior with illustrations drawn from Western European countries. Readings will cover such topics as political elites, interest groups, parties, bureaucracies, systems models, functionalism, and political culture and personality. Prerequisite: Course 2 and permission of the instructor. Professor Baron. W 2:10-4.

19. Soviet Politics. [9]

Continuity and change in the Soviet system. The role of the Communist Party in theory and practice as society modernizes. Policymaking and the interaction of elites, mass occupational groups in specific situations. Prerequisite: Course 2, History 28, or permission of the instructor. Professor Juviler. Tu Th 2:10-3:25.

20. Colloquium on Communism and Revolutionary Change. [0]

Readings, discussions, and oral and written reports on the development of Communist and other revolutionary movements in the twentieth century; consideration of questions raised by theoretical and reflective works on the causes, nature, and consequences of recent revolutions and counterrevolutions. Prerequisite: Course 2, 7, 19, or permission of the instructor. Professor Juviler. Th 2:10-4.

23. African Politics. [2]

Comparative analysis of selected African political systems, with emphasis on the problems of development and modernization. Prerequisite: Course 2 or permission of the instructor. Professor Baron. M W F 10.

24. Asian Political Systems. [2]

Comparative analysis of Asian national experiences and political ideas, with particular attention to China and India. Prerequisite: Course 2 or permission of the instructor. Professor Dalton. M W F 10.

G4462y. Latin American Political Behavior.

Comparative analysis of major groups and processes in Latin American politics. Prerequisite: Course 2 and junior standing. Mr. Fagan. W 4:10-6.

Political Theory**16. Personality and Politics. [5]**

An attempt to apply various concepts and insights from social psychology and personality theory to help explain selected aspects of political behavior. Emphasis on the acquisition of political attitudes, their functions in the fulfillment of personal needs, and the relation of such attitudes to political change, protest, and "deviance." Prerequisite: Course 1 or 2 and permission of the instructor. Professor Baron. M W F 2:10.

31. American Political Thought. [9]

A critical analysis of selected themes in the history of American political thought. Particular emphasis on ideas concerning the nature of political obligation and legitimacy, the foundations of constitutional democracy, the relationship of economic doctrines to political values, and pragmatic and utopian views of political change.

Prerequisite: Course 1 or permission of the instructor. Professor Elliff. Tu Th 2:10-3:25.

International Relations and Foreign Policy**18. Colloquium on Problems in International Politics. [0]**

Readings, discussions, and reports on selected problems in international politics. Topics for 1972: Psychological, cultural, and political factors involved in the outbreak and termination of wars.

Prerequisite: Course 11 and permission of the instructor. Mrs. Davis. Tu 2:10-4.

[21. Colloquium on Soviet Foreign Policy.

Professor Juviler. Not given in 1971-72.]

C3656x. American Foreign Policy: Process and Problems

The politics of policy-making; case studies on the making of policy and how this process affects the substance of policy; some current and prospective policy problems in Europe and Asia. Prerequisite: Course 1 and junior standing. Professor Hilsman. Lecture: Tu 4:10-6. Discussion groups at hours to be arranged.

**Courses for Majors
and Concentrators
Only**

Admission to particular sections of the junior colloquium and senior seminar is limited. During Spring pre-registration students must sign up on sheets outside 408 Lehman for the junior colloquium section of their choice and must obtain departmental approval for the section desired in the senior seminar.

45x or y. Junior Colloquium on Concepts and Methods. [0]

Analysis of central concepts and methodological techniques of political science. The different emphases and approaches of the different sections of this colloquium will be announced at Spring registration. Professors Baron and Elliff and Mrs. Davis. Section I M 2:10-4. Section II Th 2:10-4.

V3711x-V3712y. Senior Research Seminar in American Politics.

Discussions, conferences, and the writing of a senior essay on selected topics of American public policy and politics. Section II concentrates on urban and congressional politics. Section I, Professor Mansfield. Th. 4:10-6. Section II, Professor Caraley. W 4:10-6.

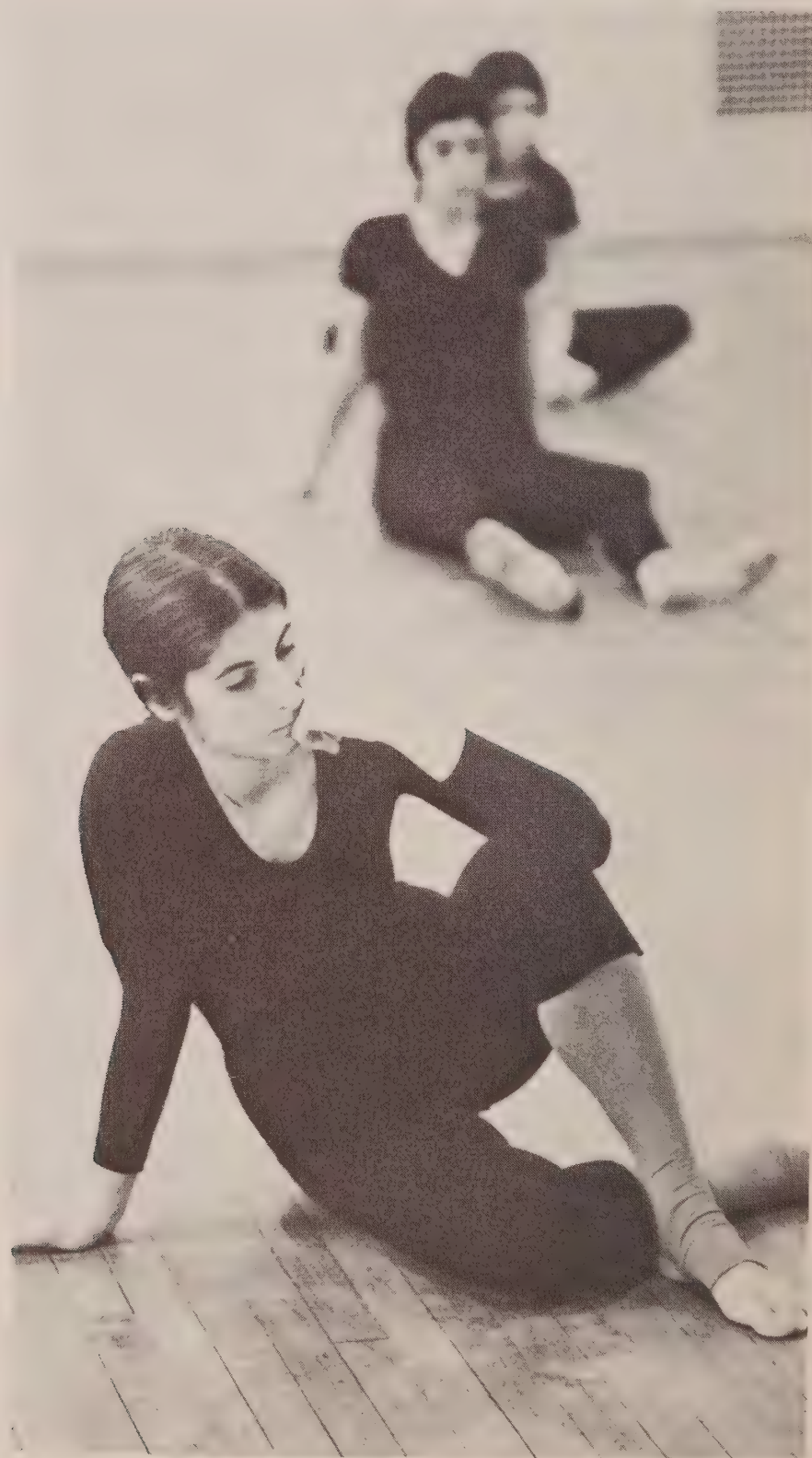
Note: Admission to Section I also requires permission of the Barnard chairman.

61-62. Senior Research Seminar. [0]

Discussions and conferences on the researching and writing of the senior essay. Section I (same as V3711x-V3712y). Section II, Professor Elliff. Tu 4:10-6. Section III, Professor Juviler. Th 4:10-6. Section IV, Professor Baron. W 4:10-6. Section V, Dr. Fox and Mrs. Davis. Th 4:10-6. Section VI, Professor Dalton. Tu 4:10-6. Section VII, Mr. Feld. W 4:10-6.

Graduate Courses

Certain graduate courses given in the University are open to qualified majors with the consent of the department and the major adviser. These courses are described in the Bulletin of the Graduate School of Arts and Sciences.



<i>Professor</i>	Richard P. Youtz (Chairman; 415F Milbank Hall)
<i>Associate Professor</i>	Barbara S. Schmitter
<i>Assistant Professors</i>	Edward S. Cobb, Barbara Mates, Thomas Biddle Perera, Susan R. Sacks
<i>Adjunct Associate Professor</i>	Alvin L. Atkins
<i>Adjunct Assistant Professors</i>	Lanny Fields, Adelbert Jenkins
<i>Instructor</i>	Sandra F. Stingle
<i>Assistants</i>	Dorothy Belford, Joan Granda, Nancy Kless, Sari Kramer, Phyllis Lefton, Catherine Lewis, Robert Lovler, Renée Rinaldi, Heidi Sigal, Bonnie Sirower, Barry Trachtman

A major in psychology: The student majoring in psychology studies the basic principles, methods, and findings of psychology and is introduced to their most important applications.

The groupings of courses given below are arranged in accordance with varying interests; the student should select one of the plans (a), (b), (c), or (d). In addition to the offerings listed in the announcement, advanced senior students with special interests may take appropriate courses in graduate school.

(a) General major: A student completing this major will have a good general background for activities in psychology or related fields, such as education, business, school psychology, psychometrics, personnel and social work, and similar areas. The major may be completed by fulfilling the following requirements:

Psychology: Courses 1, 5, 8, 9, one, or both, of 57 and 68; one other laboratory course, and other courses selected in consultation with the major adviser to complete the required 8 courses in the department.

Other fields: One course in philosophy, or Anthropology V1001x, V1002y; a one-year laboratory course in biology, physics, or chemistry.

(b) It is suggested that students who plan to obtain post-graduate professional training in clinical psychology, school psychology, vocational or rehabilitation counseling, or educational guidance should, in addition to the courses required for the major, include Courses 12, 16, 27, and two of the following: Courses 20, 21, 25, 38.

(c) Students interested in professional work in business or personnel should add the following to the requirements for the general major: Course 12. Economics 1, 2; 17, 18; and W3451x

may be substituted for work in other fields.

(d) Students who wish to take postgraduate work in experimental psychology should add the following to the requirements for the general major: Courses 17, 57 and 68. In other fields work should include: full-year laboratory courses in two of the following: biology, physics, or chemistry; two semesters of calculus.

The major examination: This consists of sections on: (1) general information and integration (two hours); (2) experimental design and techniques (one hour); and (3) areas of special interest (two hours). Students fulfilling any one of the four plans will have completed preparation for the major examination.

Laboratory Science Requirement: The college requirement in laboratory science may be satisfied by taking any two of the following courses: 5, 8, 12, 17, 20, 27, 30.

- 1x (or 1y). Introduction to Psychology. [11]**
 An introduction to the chief facts, principles, and problems of human behavior, through systematic study of a text, lectures, exercises, brief participation in a current investigation, and reading in special fields. Prerequisite for all other courses. Professors Cobb, Mates, Perera, and Youtz. Section I M W F 9. Section II M W F 10. Section III M W F 11. Section IV Tu Th 9:10-10:25.
- 5. Psychology of Learning. [8]**
 The basic methods, results, and concepts in the experimental analysis of learning. Laboratory work consists of experiments and demonstrations which mostly employ albino rats as subjects. Preparation of experimental reports is a major part of the course. Assignments deal mostly with experiments on infra-human organisms. Prerequisite: Course 1. Professor Cobb and assistants. Lec. Tu Th 11. Lab. (1 hour lecture, 2 hours projects) Tu 2:10-5, W 1:10-4, Th 2:10-5.
- 8. Perception. [8]**
 An introduction to the problems, methods and results of studies in perceptual behavior. The literature will be surveyed; key experiments will be discussed in detail. Problems of definition and experimental method will be emphasized. In the laboratory students will conduct a series of typical experiments and will prepare systematic reports of their results. Prerequisite: Course 1 or the equivalent. Not open to freshmen. Professor Perera and assistants. Lec. Tu Th 11. Lab. (1 hour lecture, 2 hours projects) W 1:10-4, Th 2:10-5.
- 9. Statistical Design. [6]**
 An introduction to statistics and experimental design in psychology and allied subjects. Descriptive statistics, probability, and elementary procedures of statistical inference will be treated. The laboratory will provide students with empirical demonstrations of theorems used, but not mathematically derived, in the lectures, together with practice in the application of elementary statistical methods. Pre-

requisite: Course 1 or the equivalent. Professor Fields and assistant. Lec. Tu Th 9:10-10:25. Lab. (1 hour) Tu 10:35-11:25, Tu 12:10-1.

12. Psychological Measurement. [2]

Introduction to test theory, including concepts of item construction, standardization, reliability, validity, and motivation. Emphasis is on design and research related to major categories of current tests. Laboratory projects will be concerned with constructing and evaluating test items under experimental conditions, with assessing various methods of test administration, and with the quantitative procedures necessary for such evaluations and assessments. Pre-requisite: Course 1 and one course in statistics. Professor Schmitter and assistant. Lec. M W 10. Lab. (1 hour lecture, 2 hours projects) W 2:10-5, Th 2:10-5.

16. Theories of Learning. [6]

A comparative study of the major accounts of the learning process. The course stresses the relation between each theory and the type and quality of research which is said to be generated by it. Seminar course limited to 20 students. Prerequisite: Courses 1, 5, and at least junior standing. Professor Cobb. Tu Th 9:10-10:25.

17. Physiological Psychology. [4]

An introduction to the study of the relationships between bodily processes and behavior. Emphasis is placed upon the basic anatomy and physiology of sensory and motor functions, motivation, emotion, learning, and behavior disorders. The laboratory consists of individual and group experiments in these areas of study, and exercises on the anatomy of sense organs and the brain. Prerequisite: Course 1. Professor Perera and assistant. Lec. M W 1:10-2. Lab. (1 hour lecture, 2 hours projects) Tu 2:10-5, W 2:10-5.

20. Language and Speech Development and Disorders. [4]

The psychological study of language and speech. Clinical and psycholinguistic consideration of language and speech perception, cognition, production, normal development, and pathology. Methods of experimental study, various theories, and problems are treated. Laboratory consists of experiments and projects, with systematic reports. Prerequisite: Course 1. Professor Mates and assistants. Lec. M W 1:10. Lab. (1 hour lecture, 2 hours projects) M 2:10-5, Tu 2:10-5.

21. Abnormal Psychology. [2]

The field of psychopathology, history, more common forms of mental inadequacy and disturbance and their psychological interpretation, including principles of mental hygiene and psychotherapy. Each class takes two trips to institutions for demonstrations of psychoses and deficiencies. Open to juniors and seniors who have had Course 1. Professor Youtz. M W 10.

[24. Applications of Psychological Techniques.

Professor Mates. Not given in 1971-72.]

25. Psychology of Personality. [6]

Contemporary theories of the development and organization of personality and their relation to other forms of psychological theory. Points of view discussed include those of Freud, Adler, Jung, neo-Freudians such as Horney and Sullivan, and others, including Murray and Kelly. Consideration is given to clinical applications

of the theories. Prerequisite: Course 1 or the equivalent. Professor Schmitter. Tu Th 9:10-10:25.

27. Developmental Psychology. [4]

Comparative and experimental analysis of developmental transitions from simple to complex behavior. Consideration of genetic and environmental factors in human development. Laboratory consists mainly of work with nursery school children and systematic reports. Topics include sensori-motor, intellectual, linguistic, social, moral, and emotional development. Preference to juniors and seniors. Prerequisite: Course 1. Professor Mates and assistants. Lec. M W 1:10. Lab. (1 hour lecture, 2 hours projects) M 2:10-5, Tu 9-11:50, 2:10-5.

30. Psychology of Thinking. [3]

Survey of contemporary experimental approaches to the understanding of concept formation and problem-solving behavior, derived from learning theory, psycho-linguistics, logic, and information theory. The laboratory will consist of experiments and demonstrations of thinking behavior in animals, children, and adults. Prerequisite: Course 5. Professor Cobb and assistant. Lec. M W 11. Lab. (1 hour lecture, 2 hours projects) Tu 2:10-5, W 1:10-4.

34. Educational Psychology. [7]

An examination of major theories and issues in the literature on human psychological development and learning fundamental to the educative process; an exploration of their educational implications and applications. Prerequisite: Course 1 or equivalent. Professor Sacks. Tu Th 10:35-11:50.

38. Social Psychology. [6]

An introduction to the study of social behavior. Among the topics considered are social learning, interaction, group behavior, and verbal behavior. Experimental contributions to the understanding of social phenomena are emphasized. Prerequisite: Course 1. Professor Atkins. Tu Th 9:10-10:25, and conference hour in connection with a project or paper.

39. Seminars on Special Topics: Psychological Analysis of Racism. [0]

Psychological factors influencing the development and expression of racist attitudes and actions, with special references to black-white confrontation. Emphasis on psychodynamic studies of hostility, anger, self-concept, mechanisms of defense, and other factors that produce and reduce racism. Each student will write an original research paper. Limited to 20 students. Prerequisite: Courses 1 and, if convenient, 25, or written permission of the instructor. Professor Jenkins. Tu 4:10-6.

Interdepartmental

Course 1. Female and Male: An Interdisciplinary Approach. [7]

Professors Komarovsky, Ehrenfeld, Kessler, and Mates. May not be counted toward major. See page 61.

48x (or 48y). Individual Projects. [0]

Research projects will be planned in consultation with members of the department. Open to majors who have had Courses 5 and 8, on written permission of the member of the department who supervises the project. Members of the Department. Hours to be arranged.

49. Teaching Apprentice Seminar. [0]

An intensive analysis of the principles of conditioning covered in Course 5. In addition to supplementary materials, students read the material assigned to Course 5 students, prepare Reading Evaluation Forms, and demonstrate in the seminar superior comprehension of the subject matter. Individual work with Course 5 students. Prerequisite: Course 5 and permission of the instructor. Professor Cobb. Tu 12:10-2.

57. Systems of Psychology. [8]

A comparative summary of the more influential schools and points of view in psychology, past and present. Each student prepares a paper reporting on an important person, institution, or subject matter area. Prerequisite: Courses 5 and 8 or the equivalent. Professor Youtz. Tu Th 11.

68. Case Histories in Experimental Design. [8]

Discussion of stages in the experimental development of psychological concepts. Nonstatistical analysis of procedures and justifiable conclusions at stages of: speculation, measurement, observed relation, experiment, and theory construction. Application to articles in current journals, both experimental and clinical. Each student will choose an area of interest and prepare a paper reporting on its origins and present status. Prerequisite: Course 5 or 8 or the equivalent. Professor Youtz. Tu Th 11.

The following Barnard courses may be of interest to majors. Some have prerequisites.

[Anthropology V3027y (Culture and the Individual). Not given in 1971-72.]

Biological Sciences 8 (Ecology)

Biological Sciences 20 (Laboratory in Animal Behavior).

Linguistics 21, 22 (Introduction to Linguistics)

Sociology 46 (Social Structure and Personality)

<i>Professor</i>	Theodor H. Gaster (Chairman; 219C Milbank Hall)
<i>Adjunct Professors</i>	John L. Mish, Albert W. Sadler
<i>Assistant Professors</i>	Elaine H. Pagels, John B. Snook
	Officers of Columbia University offering courses open to Barnard students:
<i>Professors</i>	Joseph L. Blau, J. A. Martin, Jr.
<i>Adjunct Professor</i>	John Healey
<i>Assistant Professors</i>	James W. Armantage, Robert F. Olson, Reuben Rainey

The purpose of the program is (a) to introduce the field of religion in general; (b) to present the thought, documents and history of the major religious systems of the East and West; and (c) to give students an insight into the distinctive approach of each towards the analysis of the human condition and the solution of its problems. The courses are designed not only for those who may wish to specialize in religion, but also as a cross-fertilization of general studies in the humanities, e.g. in history, literature and philosophy.

The program of study for a major in religion is to be planned in consultation with members of the department by the end of the sophomore year. Ten semester courses are required, distributed as follows:

- (i-ii) V1101, V1102: Introduction to the Study of Religion
- (iii-iv) Two semester courses in Western religions, one of which may be a seminar
- (v-vi) Two semester courses in Eastern religions, one of which may be a seminar
- (vii) One semester course in either Old or New Testament
- (viii) One semester course in Religion and Culture
- (ix) One additional seminar, or V1001x: Major Topics in the Study of Religion. (In cases of exceptional promise, the Reading Course 35 or 36 may be substituted)
- (x) W3501x: Seminar in Methodology. (In cases of exceptional promise, the Reading Course 35 or 36 may be substituted)

In addition, majors in religion are expected to take four semesters of course-work in related departments. The selection must be made in conjunction with the student's major adviser.

Majors in religion will be required in their last year to write a senior essay in conjunction with one of their seminars or, if they are deemed eligible for it, with the Reading Course, 35 or 36. The topic and development of the essay will be subject to departmental approval and supervision.

Students contemplating graduate work in religion are strongly advised to develop a reading knowledge of such languages as Greek, Latin, Hebrew, Arabic or Chinese, depending on the area of concentration. Courses in these languages will be accepted towards meeting the requirement of study in related subjects.

In courses where several sections are offered, Barnard students are expected to take Barnard sections. Only in cases of schedule conflicts will permission be given to substitute parallel sections at Columbia.

General Introduction and Survey

**V1101x, V1102y (or
V1102x, V1101y).**

Introduction to the Study of Religion.

The phenomenology of religious experience and the historical forms of religious life. A survey of the presuppositions, data and documents of the religions of East and West. Autumn Term: The religions of the Ancient Near East and Greece; major themes in Judaism and Christianity. Spring Term: Eastern religions.

Barnard: Section IV. Autumn Term: Professor Pagels; Spring Term: Professor Snook. M W F 10.

Columbia: Section I. Instructor to be announced. M W 2:10-3:25. Section II. Professor Hester. Tu Th 6:10-7:25. Section III. Professor Armantage. Tu Th 2:10-3:25.

V1102x, V1101y. (For those wishing to begin the course with the study of Eastern religions.)

Barnard: Section Vb. Professor Gaster. Tu Th 10:35-11:50.

Columbia: Section Va. Professor Olson. M W F 11-12:15.

V1101x or y.

Major Topics in the Study of Religion.

A one-semester introduction to the major concerns of religion in the East and West, with special attention to such topics as myth and ritual, reason and revelation, authority, law and community, priesthood, the role of symbolism, the concept of the sacred, the idea of God.

Barnard: V1001x, Section I. Professor Snook. Tu Th 2:10-3:25. V1002y, Section I. Professor Gaster. Tu Th 9:10-10:25.

Columbia: V1001x, Section II. Professor Rainey. M W F 10. V1002y, Section II. Professor Rainey. M W F 10.

Bible

W3201x.

Introduction to the Old Testament.

An introduction, by critical methods, to the religious history and literature of Israel in the Old Testament period, with illustration from Ancient Near Eastern sources.

Barnard: Section I. Professor Gaster. Tu Th 9:10-10:25.

Columbia: Section II. Professor Armantage. Tu Th 4:10-5:25.

V3202y. Introduction to the New Testament.

An introduction, by critical methods, to the religious history and literature of the Christian movement in the New Testament period.

Barnard: Section I. Professor Pagels. M W F 10.

Columbia: Section II. Professor Armantage. Tu Th 4:10-5:25.

[G4169x-G4170y. Archaeology-Religion. Archaeology of the Bible.

Professor Teixidor. Not given in 1971-72.]

Western Religions

Christianity

[14. From Paganism to Christianity.

Professor Pagels. Not given in 1971-72.]

V3204x. Early Christianity in the Light of Classical Culture.

An introduction of the Christian interpretation of the literary and philosophical traditions of Hellenistic culture. Professor Armantage. M W 11-12:15.

15, 16. History of Religious Thought in the West.**[7]**

15. Representative religious thinkers from the Classical period to Ockham, with emphasis on the faith-reason and universal controversies, the presuppositions of medieval theology, and the significance of the trivium and of chiliastic writings. 16. Representative religious thinkers from the Renaissance to the present day, with emphasis on attitudes toward Biblical translation, language, millenarian tendencies, and the presuppositions of selected religious communities and theological systems. Professor Pagels. Tu Th 10:35-11:50 (both terms).

[17, 18. Western Religious Institutions.

Professor Snook. Not given in 1971-72.]

W3235y. Catholic Thought after Trent; since Vatican II.

Developments in theology; tensions and attempted resolutions; Catholic view of the Church and its relation to contemporary culture; modern problems of faith and dogma; ecumenicism. Father Healey. M W 4:10-5:25.

Judaism**W3237x-W3238y. History of Judaism.**

History of the Jewish religion from its beginnings to contemporary manifestations in Israel and the United States. Autumn Term: Early background and formation of Judaism. Spring Term: From the Rabbinic period to the present. Professor Blau. Tu Th 4:10-5:25.

[W3214y. Introduction to Talmudic and Geonic Literature.

Professor Weiss. Not given in 1971-72.]

Eastern Religions

Hinduism

53. History of Hinduism.**[1]**

A survey of the philosophies and history of Hinduism. The Vedic and Brahmanic periods. The Upanishads. Vedanta. Yoga. The darsanas. Modern developments. Professor Mish. W F 9:10-10:25.

Buddhism**[54. History of Buddhism. Professor Mish. Not given in 1971-72.]**

V3252x. History of Buddhism.

Change and continuity in the development of Buddhist thought and institutions during the expansion of Buddhism from India to Tibet, China and Japan. Professor Olson. Tu Th 2:10-3:25.

Chinese Religions**W3253y. Chinese Religious Thought.**

Native religions, philosophical movements, and Buddhist developments in China. Professor Olson. M W 2:10-3:25.

Japanese Religions**W3254x. Japanese Religious Thought.**

Classical religions of Japan: Buddhism, Taoism and Shinto; recent "new religions." Professor Sadler. Tu Th 11-12:15.

Ancient Near Eastern Religions**[31. Ancient Near Eastern Religions.**

Professor Gaster. Not given in 1971-72.]

G6312y. Ancient Near Eastern Religions.

A comprehensive study of the religious ideas, practices, institutions and writings of the Egyptians, Mesopotamians, Hittites, Canaanites and Israelites. The texts are read in translation. *Open to religion majors.* Professor Gaster. Th 4:10-6.

Primitive Religion**Anthropology****V3042y.****Religion in Anthropological Perspective.**

Ideological systems of simple and pre-industrial cultures. Relations between religion and other aspects of culture. Prerequisite: an introductory course in anthropology. Professor Kessler. Tu Th 10:35-11:50.

Religion and Culture (Theory and Functions of Religion)**25. Religion in Contemporary Society.****[5]**

The place of religious institutions on the contemporary scene, East and West. Consideration will be given to the historical antecedents of the present situation, characteristics of the major types of existing institutions, and to some of the problems posed by new forms of religious group life, e.g. in Japan. Professor Snook. M W F 2:10-3.

26. Religion in Contemporary Culture.**[9]**

Atheism in the West; a study of the role of atheism in Western religious thought. Among the authors discussed are both critics and defenders of religious tradition, including Hegel, Schleiermacher, Feuerbach, Marx, Kierkegaard and Nietzsche. Open to all except freshmen. Professor Sadler. Tu Th 2:10-3:25.

Religion-Sociology**G4400x.****Sociology of Religion.**

Major theoretical approaches to the relationship between religious values and social institutions, in readings from Durkheim, Pareto, Malinowski, Marx and Max Weber. Problems in the comparative

evaluation of religious systems and their social and cultural consequences. Instructor and time to be announced.

64. (History 64). The History of Religion in America. [6]

Religious thought and institutions from Colonial times to the present; their influence on American political and social history through the work of representative individuals. Professor Snook. Tu Th 9:10-10:25.

[G4401y. The Role of Language in Religious Existentialism.

Not given in 1971-72.]

[27. Black Theology. Not given in 1971-72.]

Seminars *Students who are not religion majors must obtain permission of the department.*

W3501x. Methodology in the Study of Religion.

Primarily for majors preparing senior essays, the seminar is designed to acquaint students with the various approaches to the study of religion. Professor Snook: W 3:35-5:25.

W3503x, W3504y. Religious Thought.

Either term may be taken separately.

W3503x. Section I. The World of Magic.

The theory and practice of magic in the ancient and modern worlds, East and West. Professor Gaster. Tu 3:35-5:25.

Section II. The Gnostic Religion.

Introduction to the study of Gnosticism and examination of Christian, Jewish and pagan sources for esoteric tradition. Professor Pagels. Th 3:35-5:25.

Section III. Eschatology, Apocalypse, and Utopia.

The various images of human fulfillment in Western religious and philosophical traditions. Zoroaster, Second Isaiah, Daniel, Jesus, Augustine, Joachim of Fiore, Moore, Marx, Nietzsche, and selected contemporary thinkers. Professor Rainey. M or W 3:35-5:25.

W3504y. Section I. Mysticism.

Selected mystical literature of the East and West, theistic and nontheistic. Professor Ulanov. M 2:10-4.

Section II. Interpretation of the Protestant Ethic.

An assessment of the religious forces in contemporary moral attitudes through study of Max Weber's *The Protestant Ethic* and the *Spirit of Capitalism* and related works. Professor Snook. W 3:35-5:25.

Reading Course

35, 36. Guided Reading and Research. [0]

A program of study designed to give outstanding majors an opportunity to pursue independently a subject of their choosing. A written essay is required of students taking this program. Consultation periods to be arranged with adviser. Members of the Department.

<i>Professor</i>	Richard F. Gustafson (Chairman; 226B Milbank Hall)
<i>Assistant Professor</i>	Marina Ledkovsky
<i>Associates</i>	Anatol K. Sapronow, Zoya Trifunovich
<i>Instructors</i>	Marianna Sapronow, Anya Luchow Officers of Columbia University offering courses open to Barnard students:
<i>Professors</i>	Robert Belknap, Robert A. Maguire
<i>Assistant Professor</i>	John Malmstad

The Russian Department offers courses in the language, literature, and culture of Russia. Besides a full four-year sequence in language work, there are specialized courses in major Russian authors and important periods in Russian literature and philosophy. Students should consult the department chairman in choosing language courses beyond the second year. For those who know no Russian, the department also gives a series of courses in Russian literature taught in English.

The major in Russian at Barnard is a liberal arts program designed to help the student obtain reasonable fluency in the spoken and written language, a reading command of Russian adequate for interpreting texts, and a comprehensive knowledge of Russian literature and culture, especially of the nineteenth and twentieth centuries. Students will be encouraged to take one year of Russian history and to select relevant courses in philosophy, art, music, and other literatures. The requisites to the major, in most cases to be completed before the junior year, are Russian 4 (or its equivalent) and usually Russian V1225x, V1226y. The minimum for the major is 8 courses. No courses with readings exclusively in English may be included in the minimal major program. Normally majors are required to take Russian V3333x, V3334y and two fourth-year language courses. The senior requirement may be fulfilled by taking one or two semesters of the Senior Seminar or by writing a Senior Essay in conjunction with an advanced course. For further information, consult the departmental chairman.

Foreign Language Requirement for the Degree: All students must take a placement examination before entrance. This examination tests the student's knowledge of grammar, her comprehension of written and spoken Russian, and her ability in free composition. Students receiving a sufficiently high grade will automatically fulfill the requirement. All others must complete Russian 4 or any course beyond that level.

Language Courses

1-2. Elementary Full-Year Course. [16]

Grammar, reading, composition. Oral practice in small groups. Language analysis: Professor Gustafson. M W F 10. Oral practice: Mr. and Mrs. Sapronow. M W F 9, M W F 11, M W F 1:10, M W F 2:10. With permission of the departmental chairman, students with conflicts may register for Russian C1101x-C1102y.

3-4. Intermediate Course. [16]

Grammar review, composition, reading. Oral practice in small groups. Language laboratory work required. Prerequisite: Course 2 or the equivalent. Language analysis: Mrs. Trifunovich. M W F 12:10. Oral practice: Mr. and Mrs. Sapronow. M W 10, M W 11, Tu Th 9, Tu Th 10, Tu Th 11. With permission of the departmental chairman, students with conflicts may register for Russian C1201x-C1202y.

5, 6. Oral Russian, Third Year.

Discussion of texts, oral reports, dialogues. Open only to students enrolled in Russian V3333x, V3334y. The second term may be taken without the first. No credit. Mr. and Mrs. Sapronow. Tu Th 12:10.

7, 8. Guided Readings in Russian, Intermediate Level.

Extensive reading in Russian prose with primary stress on building vocabulary and speed. Student participation in choice of reading material. Close individual work. Prepares for advanced courses not conducted in Russian. Does not prepare students for the Russian major or satisfy the language requirement. The second term may be taken without the first. Prerequisite: one year of Russian and permission of the departmental chairman. Mrs. Luchow. First meetings Th 1:10.

V3331x, V3332y. Readings in Russian Literature.

Emphasis on conversation and composition. Reading and discussion of selected texts from nineteenth and twentieth-century Russian literature. Lectures, papers, and oral reports. Conducted entirely in Russian. Prerequisite: two years of Russian or permission of the instructor. Professor Ledkovsky. M W F 1:10.

[V3335x, V3336y. Advanced Language Course, Third Year. Not given in 1971-72.]

C3443x, C3444y. Advanced Russian: Syntax and Style.

Autumn Term: Systematic study of problems in Russian syntax; written exercises, translations into Russian, and compositions. Spring Term: Discussion of different styles and levels of language, including word usage and idiomatic expressions; written exercises, analysis of texts, and compositions. Conducted entirely in Russian. The second term may be taken without the first. Prerequisite: three years of Russian or permission of the instructor. Mrs. Trifunovich. M W F 2:10.

9, 10. Oral and Written Russian: Advanced Course. [10]

Selected twentieth-century Russian texts in philosophy, criticism, and literature provide a context for discussion. Lectures and reports on the modern period. Frequent compositions. Conducted entirely in Russian. Recommended for students who wish to improve their active command of Russian. The second term may be taken without the first. Prerequisite: three years of Russian or permission of the instructor. Mr. Sapronow. M W 3:10. Third hour to be arranged.

- Literature Courses** For nonmajors, courses marked thus § will count toward the general college requirement.
- V1225x, V1226y. Survey of Russian Literature.**
Literature from Pushkin through the modern period, with emphasis on the prose masterpieces of the nineteenth century. The second term may be taken without the first. A knowledge of Russian is not required. V1225x: Professor Gustafson. V1226y: Professor Ledkovsky. M W F 11.
- V1227y. Tolstoy and Dostoevsky.**
Analysis of the major works of the two writers. Some attention will be paid to their moral and social ideas. A knowledge of Russian is not required. Professor Gustafson. M W F 12:10.
- [V1229x. Russian Drama and Theatre.** Not given in 1971-72.]
- §V3333x, V3334y. Introduction to Russian Literature.**
Emphasis on reading and literary analysis. Close study of representative works of Russian literature from Pushkin to the modern period. Conducted mainly in Russian. Examinations in English. Prerequisite: a grade of B- or better in Course 4 or permission of the instructor. Professor Ledkovsky. M W F 10.
- [V3454y. Russian Thought in the Nineteenth and Twentieth Centuries.** Professor Gustafson. Not given in 1971-72.]
- [§V3461y. Pushkin.** Professor Ledkovsky. Not given in 1971-72.]
- [V3462x. Gogol.** Professor Gustafson. Not given in 1971-72.]
- [§V3463x. Tolstoy.** Professor Gustafson. Not given in 1971-72.]
- §V3464y. Dostoevsky.**
A close study, in the original, of several short works. Prerequisite: three years of Russian or permission of the instructor. Professor Belknap. M W F 1:10.
- §V3465x. Russian Poetry in the Nineteenth and Twentieth Centuries.**
Intensive reading of selected texts from representative lyric poets, including Tiutchev, Fet, Blok, and others. Attention will be paid to metrics, formal analysis of style and structure, and the relationships to literary and philosophical movements. Prerequisite: three years of Russian or permission of the instructor. Professor Gustafson. M W F 1:10.
- §V3467x. Twentieth-Century Prose Writers.**
A close study, in the original, of three major authors, chosen from among Bunin, Babel, Olesha, Pasternak, and one currently active. Professor Maguire. Tu Th 1:10-2:25.
- V3595x, V3596y. Seminar.**
Supervised individual research, culminating in a critical paper. The second term may be taken without the first. Prerequisite: senior standing and permission of the instructor. Professor Maguire. First meeting (x and y.) Th 3:10.

Graduate Courses The following graduate course is given by a member of the Barnard Russian Department. It is open to undergraduates only by written permission of the departmental chairman and the instructor.

G4103x. History of the Russian Language: Introductory Course.
Professor Ľedkovsky. M W 12.



<i>Professors</i>	Bernard Barber (Chairman; 410E Milbank Hall), Mirra Komarovsky ¹
<i>Associate Professor</i>	Gladys Meyer
<i>Assistant Professors</i>	Ethna Lehman, Julia Makarushka, Paul Ritterband
	¹ Emeritus.

Sociology introduces students to the scientific study of society. The basic problems common to all human societies and the varied institutional solutions to these problems make up one large area of sociological interest; hence the sociological study of the family, social class, economic and political institutions, religion, science, ideology, etc. The study of rural and urban communities, human relations in groups, social structure and personality are other areas of sociological interest. So also is the understanding of social change. Sociology is concerned not only with the normal functioning of social institutions but also with social problems such as racial and minority problems, industrial conflict, crime, and other areas of social disorganization. In studying these subjects, materials about American society are given primary emphasis. However, comparative materials from other societies, preliterate and more highly developed, are extensively used. Finally, sociology seeks to acquaint students with its methods of investigation, from which students can learn important facts about scientific method in general. A student majoring in sociology will be required to take: Course 1, 2 (preferably in the freshman year); 41 and 43 (both no later than fall of the junior year); 87-88 (in the senior year); and other courses selected in consultation with the major adviser.

There is no major examination. To graduate, a student must complete, to the satisfaction of her instructor in Soc. 87-88 and one other member of the department, a long paper involving some form of sociological research and analysis.

- 1, 2. Introduction to Sociology.** [8]
 An introduction to sociological analysis with comparative materials from contemporary American and other societies. Autumn Term: Alternative models of sociological analysis. Major structures of society: kinship, socialization, stratification, formal and informal organization. Spring Term: Major structures of society continued: polity, economy, religion. Selected problems of social deviance and social control. Race and ethnic relations. Problems of social change. These courses must be taken in sequence, but not necessarily in the same year. Professor Lehman. Tu Th 11-11:50, and one additional hour F 10, 11, or 2:10.
- 21. Poverty and the State.** [2]
 Conceptualizations of poverty and their effect on public policy. An

analysis of tax supported welfare and anti-poverty programs. Comparative study of the philosophy, structure, and coverage in the U.S., England, and France. Open to juniors and seniors. Term paper or field work required. Prerequisite: Course 1, 2. Professor Meyer. M W F 10.

22. Introduction to Social Work. [0]

The growth of the profession. Intellectual influences which have shaped its development. The traditional fields of practice. The structure and function of voluntary agencies. Open to juniors and seniors. Prerequisite: two courses in social science other than history. Field work or a paper is required. Professor Meyer. M W F 10.

32. The Family. [9]

Kinship structures and processes in a cross-cultural perspective. Topics included: comparative kinship structures in selected contemporary and historical societies; kinship and socialization; the relations between kinship structure and other institutions (economy, polity, religion, stratification); kinship and social change; selected problems of kinship structures (divorce, desertion, illegitimacy). Prerequisite: Course 1, 2. Professor Lehman. Tu Th 2:10-3:25.

33. The Community. [3]

Analysis of variant forms of community structure. Evaluation of classical and current community research. Problems of community power and policy. Professor Makarushka. M W F 11.

34x. American Minorities. [4]

The composition and distribution of minority groups in the U.S. The structure of dominance; minority adaptations to dominance; the impact of minorities upon the Establishment; the politics of confrontation. Term paper required. Prerequisite: Course 1, 2. Professor Meyer. M W F 1:10.

36. Social Deviance. [3]

Various theoretical perspectives on the nature of deviance and social control. The analysis of selected contemporary problems, seen within the context of the wider society. Prerequisite: Course 1, 2. Professor Makarushka. M W F 11.

[39. Comparative Social Institutions.

Professor Barber. Not given in 1971-72.]

41. Sociological Theory. [5]

Systematic, historical and sociological analysis of sociological theory with reference to the work of such major figures as Comte, Marx, Spencer, Sumner, Cooley, Durkheim, Weber, Simmel, Mannheim, Sorokin, Parsons, Merton and others. Prerequisite: Course 1, 2. Professor Barber. M W 2, and individual conferences.

42. Colloquium in Sociological Theory. [0]

An intensive and broadened continuation of Course 41. A long paper is required. Prerequisite: Course 41. Professor Barber. M W 2-3, and individual conferences.

43. Introduction to Sociological Research. [7]

The logic of social research: theories and their functions in inquiry; sociological concepts, their definition and measurement; criteria for evaluating claims to knowledge of social phenomena. The conduct

of inquiry: conceptualization and the formulation of hypotheses; procedures and presuppositions of various research methods; observational procedures and problems of objectivity; the design of research and problems of causal inference. Various technical procedures: sampling designs and the selection of cases; methods of recording and processing data and the control of error; concept-indicator relations and index-construction; analysis of qualitative materials; methods of analyzing quantitative data. Prerequisite: Course 1, 2. Professor Ritterband. Tu Th 10:35-11:50.

44. Colloquium in Research Design and Analysis. [8]

Detailed examination of several empirical studies in terms of methodologies employed and methodological problems encountered. Special attention given to concept-indicator relations, principles of multi-variate analysis, and problems of causal inference. Prerequisite: Course 43. Professor Ritterband. Tu 10-12, and individual conferences.

45. The Sociology of Religion. [9]

Social determinants and consequents of different types of religious organization, leadership, and response. Special emphasis is given to the relationship between religion and social order, disorder, and change. Prerequisite: Sociology 1, 2. Professor Ritterband. Tu Th 2:10-3:30.

46. Social Structure and Personality. [4]

Critical examination of the theory and research studies dealing with relations between social structure and personality. Prerequisite: Course 1, 2. Professor Makarushka. M W F 1:10.

47. Social Movements. [10]

Various types of social movements, their organization, ideologies and relationship to social change. Social-psychological bases of participation. Substantive materials drawn from historical sources and current developments in the United States. Prerequisite: Course 1, 2. Professor Makarushka. M W F 3:10.

48. Black Americans in the Twentieth Century. [5]

Patterns of interaction between black Americans and white society from the founding of the NAACP to the death of Martin Luther King. Term paper required. Guest lecturers. Not open to freshmen. Professor Meyer. M W F 2.

Interdepartmental Course 1. Female and Male: An Interdisciplinary Approach. [7]

Professors Komarovsky, Ehrenfeld, Kessler, and Mates. May not be counted toward major. See page 61.

50. Female and Male — A Sociological Perspective. [7]

Economic, demographic and cultural changes modifying the traditional conceptions of masculinity and femininity. Stresses in female-male relationships at various stages of the life cycle and in the family, occupational world and other institutional settings. Class and race differences in social roles of the sexes. Social policies leading to the alleviation of current problems. Not open to students who have taken Female and Male: An Interdisciplinary Approach. Professor Komarovsky. Tu Th 10:35-11:25.

87-88. Individual Projects for Seniors. [0]

Groups of 5-10 seniors will be assigned to instructors who will supervise the writing of long papers involving some form of socio-

logical research and analysis. Apply to the Chairman for assignment. Section A: Professor Lehman. Section B. Professor Makarushka. Section C: Professor Meyer. Section D: Professor Ritterband.

[97. **Senior Seminar.** Not given in 1971-72.]

C3668x-C3669y. American Political Behavior.

Discussions of empirical studies of political behavior in modern society, especially political ideology, political behavior, parties, class, religion, ethnicity and the like. Mr. Kelley. Tu Th 1:10-2:25.

C3413x. Cultural Assumptions and Interaction.

Analysis of methods and assumptions members of a culture use to coordinate their activities and communication. Emphasis on analysis of materials, conversations, and texts. Professor Wulbert. M W F 1:10.

C3666y. Political Sociology.

The bearing of social and personality structure upon political behavior. Empirical studies of electorates, political elites, and parties. The social and personality requisities of democracy. Analysis of American and European political systems in a sociological perspective. Professor Silver. Tu Th 11-12:15.



<i>Professor</i>	Margarita Ucelay
<i>Associate Professor</i>	Mirella de Servodidio (Chairman; 208 Milbank Hall)
<i>Assistant Professor</i>	Maria de Orti
<i>Associate</i>	Luz Castaños
<i>Instructors</i>	Randolph Pope, Marcia Welles

A major in Spanish is designed to enable the student to acquire ease and fluency in the written and spoken language and to develop an understanding of the cultural and literary traditions of Spain and the Hispanic Republics.

A student majoring in Spanish will be required to take Courses 13, 14; 17, 18; 20; 23; 25, 26; 31, 32.

Other fields: The following courses are recommended: Anthropology V3029y; Classical Literature 32x; Art History V3080x, 75, 76, 88; French 21, 22; German 55, 56; Italian V3333x-V3334y; Philosophy 1; Religion V1101x. A major in Spanish must broaden her study of Spanish culture by relating it to other cultures which have influenced it or been influenced by it.

The major examination consists of a three-hour written examination on Spanish literature; a three-hour written examination on Hispanic civilization and Spanish-American literature; and a half-hour oral examination on literature and culture. All examinations are conducted in Spanish.

Foreign Language Requirement for the Degree: Freshmen who have had prior training in Spanish and who wish to satisfy the foreign language requirement in Spanish will be placed in the appropriate language courses on the basis of their CEEB scores, or, if such are not available, on the basis of proficiency tests taken before registration. Students having a sufficiently high score will automatically fulfill the requirement. All others may do so by completing course 4. Transfer students should consult the department.

Language Courses

V1101x-V1102y.

Elementary Full-Year Course.

Grammar, reading, conversation. May not be taken parallel to elementary Italian. Laboratory work is required. Miss Castaños, Mrs. Welles, Mrs. De Ames. Section 1a: M Tu W Th F 9. Section 1b: M Tu W Th F 9. Section 2a: M Tu W Th F 10. Section 2b: M To W Th F 10. Section 3: M Tu W Th F 11. Section 4: M Tu W Th F 12.

2x. Intensive Review of Elementary Spanish.

[3]

A course for incoming students whose score on the placement test puts them between the beginning and intermediate level. Also intended for students of Spanish-American background who have

some speaking knowledge of Spanish but insufficient formal training or grammatical foundation. Laboratory work is required. Professor Orti. M Tu W F 11.

3, 4. Intermediate Course.

A rapid review of grammar and syntax; oral practice. Discussion and analysis of important works in Spanish and Spanish-American literatures. Monthly book reports on outside reading. Mrs. Welles, Professor Orti, and Miss Castaños. Section I M W F 9 [1]. Section II M W F 10 [2]. Section III M W F 1:10 [4].

3y. Intermediate Course, Part I. [3]

Equivalent to Course 3, but given in the Spring Term. Mrs. Welles. M W F 11.

4x. Intermediate Course, Part II. [4]

Equivalent to Course 4, but given in the Autumn Term. Professor Ucelay. M W F 1:10.

5. Spanish through Literary Analysis. [9]

Readings in twentieth-century works as a basis for improving the comprehension of written and spoken Spanish. Special emphasis on syntax and translation. Weekly compositions. Prerequisite: Course 4 or 4x. Mrs. Welles. Tu Th 2:10-3:25.

6. Problems of Spanish Grammar. [1]

A study of morphology, structure and syntax as a point of departure for questions related to New York City Spanish: i.e., why linguistic norms operate, what variants develop, to what extent New York City Spanish is peculiar and why. Recommended to students in Education, Linguistics, Urban Studies. Prerequisite: Satisfaction of foreign language requirement in Spanish. Mr. Pope. M W F 9.

7. A Study of Spoken Spanish. [0]

Field work for the purpose of investigating and recording on videotape the dialects and language variations which exist among New York's Spanish-speaking population. Recommended to students in Education, Linguistics, Urban Studies. Prerequisite: Permission of the instructor. Mr. Pope. Hours to be arranged.

[V1521x, V1522y. **Advanced Oral Spanish.** Not given in 1971-72.]

Literature Courses

For nonmajors' courses marked thus § will count toward the general college requirement. All Barnard courses are conducted entirely in Spanish except Course 12.

§11. Significant Themes of Contemporary Latin-American and Spanish Literature. [4]

Analysis and discussion of selected works of contemporary interest. Prerequisite: Satisfaction of the foreign language requirement in Spanish.

I. Literature of Social Protest in Latin-America. José Eustacio Rivera, Mariano Azuela, Carlos Fuentes, Miguel Angel Asturias, Vargas Llosa. Mr. Pope. M W F 1:10.

§11y. The equivalent of Spanish 11, but given in the spring.

I. Theater and Poetry of Federico García Lorca. Professor Ucelay. M W F [2].

II. Reality and Fantasy in Contemporary Latin-American Narrative. Jorge Luis Borges, Alejo Carpentier, Juan Rulfo, Gabriel García

Márquez, Julio Cortázar. Professor Orti. M W F 11 [3].

12. Contemporary Latin-American Narrative in Translation. [9]

Reading and discussions of major works by Asturias, Borges, Fuentes, Cortázar, García Márquez, Rulfo and Vargas Llosa. Special emphasis on the social and structural problems involved. No knowledge of Spanish is required. Professor Servodidio. Tu 2:10-4.

13. The Culture of Spain. [2]

The history and culture of Spain. A study of the origins and evolution of Spanish character, tradition, and thought. The interrelationship of its history and arts and the scope of its contribution to Western culture. Lectures and written reports. The use of audio-visual materials will be stressed. Prerequisite: Courses 3, 4, or 5. Professor Ucelay. M W F 10.

14. Spanish-American Culture. [7]

The history and culture of Spanish America. A study of the origins and evolution of the Spanish-American character, tradition, and thought. The interrelationship of its history and arts. Lectures and written reports. The use of audio-visual materials will be stressed. Prerequisite: Courses 3, 4, or 5. Mr. Pope. Tu Th 10:35-11:50.

C3333x-C3334y. Masterpieces of Spanish Literature (in Spanish).

A systematic survey of the major works of the great writers of Spain and Spanish America. Readings, discussions, and brief reports. Section I M W F 9. Section II M W F 11.

§17. Spanish Literature in the Middle Ages and the Early Renaissance. [7]

Lectures and discussions in Spanish on Spanish Literature from its origins to the beginning of the sixteenth century. Prerequisite: Satisfaction of the foreign language requirement in Spanish. Professor Servodidio. Tu Th 10:35-11:50.

§18. Spanish Literature of the Golden Age. [3]

Lectures and discussion of principal authors and genres. One term paper. Prerequisite: Satisfaction of the foreign language requirement in Spanish. Professor Ucelay. M W F 11.

C3411x-C3412y. Drama of the Golden Age, Cervantes (in Spanish).

C3411x: representative dramatic authors of the sixteenth and seventeenth centuries with emphasis on Lope de Vega, Tirso de Molina, Ruiz de Alarcón, and Calderón. Lectures, readings, and individual reports. C3412y: The life and works of Miguel de Cervantes Saavedra. Prerequisite: Spanish C3334 or the equivalent. Professor de Morelos. M W F 11.

§20x. Don Quijote. [3]

Close analysis and discussion of Cervantes' masterpiece. A study of the principal critical works on outside reading. Prerequisite: Spanish 17, 18 or written permission of the instructor. Professor Ucelay. M W F 11.

[§22. The Spanish Drama. Professor Ucelay. Not given in 1971-72.]

§23y. Nineteenth Century Literature in Spain. [5]

Romantic drama and poetry; the realistic novel. A term paper on Galdos. Prerequisite: Courses 17, 18, or written permission of the department. Professor Ucelay. M W F 2:10.

§25. Contemporary Spanish Literature, Part I. [4]

Characteristics, technique, and style of the writers of the generation of '98 from Unamuno to Ortega y Gasset. (Baroja, Valle-Inclán, Azorín, Benavente, A Machado, Juan Ramón Jiménez will be specifically studied.) One term paper. Prerequisite: Courses 17, 18 or written permission of the instructor. Professor Orti. M W F 1:10.

§26. Contemporary Spanish Literature, Part II. [4]

The ideas, trends, and new literary concepts from García Lorca and the generation of '27 to the present day writers. One term paper. Prerequisite: Courses 25, 17, 18 or written permission of the instructor. Professor Orti. M W F 1:10.

§31-32. Spanish-American Literature.

Autumn Term: A survey of literary currents in Spanish America through Modernism. Mr. Pope. Tu Th 2:10-3:25 [9]. Spring Term: Post-Modernist poetry; Jorge Luis Borges; the contemporary Latin-American novel. Professor Servodidio. Tu Th 10:35-11:50 [7].

33. Senior Seminar. [0]

Intended to supplement or coordinate the work done in other courses and to introduce the student to the methods of scholarly research. Open only to seniors. Professor Servodidio. Hours to be arranged.

C3810x. Don Quixote in Translation.

A critical examination of Don Quixote (in translation). In addition, particular consideration of various kinds of novels (pastoral, sentimental, picaresque, and novels of chivalry) in their relationship to Don Quixote and the history and development of the genre. Professor Selig. Tu Th 11-12:15.

C3811x-C3812y. Latin-American Seminar.

A seminar which examines the mainsprings of civilization and cultural change in Latin America. Designed for senior majors in Latin-American areas. Professor de Morelos.

Professional and graduate training is offered at various schools in Columbia University, and their Bulletins are available in the office of the Secretary of Columbia University. Information and advice concerning advanced work in the University may be obtained from class and major advisers at Barnard.

The requirements for admission vary and must be checked by reference to current regulations and by inquiry to the Office of University Admissions or to the specific school. In some instances a student is eligible after two or three years of college study; in others a Bachelor's degree is essential.

Professional and graduate schools of the University include the School of Architecture; the School of the Arts; the Graduate School of Business; the School of Dental and Oral Surgery; the School of Engineering and Applied Science; the Graduate School of Arts and Sciences; the School of International Affairs; the Graduate School of Journalism; the School of Law; the School of Library Service; the Faculty of Medicine (Nursing, Occupational Therapy, Physical Therapy, Public Health); the School of Social Work; Teachers College; and Union Theological Seminary.

Barnard does not charge its students the full cost of their instruction, since its Trustees believe that admission to college should be based on intellectual ability and promise rather than financial resources. Student payments meet only two-thirds of the total educational expense; the balance must be obtained each year from investment income and from gifts of the Associate Alumnae and other friends of the College. By continuous efforts to increase annual gifts and endowment, and by economy of operation, the College keeps charges as low as possible without sacrificing the quality of its instruction.

Schedule of Fees and Charges

The following fees are required from all students for each autumn or spring term:

Tuition	
Full program	\$1,215.00
Partial program (less than 3 courses, per course)	303.75
Registration	10.00
Health Service	35.00
Undergraduate Association (Will be paid to Undergraduate Associations on behalf of each student)	
	15.00

The following fees are required from all students occupying College housing facilities for each autumn or spring term:

Reid, Brooks and Hewitt Halls	
Room — Single	337.50
Double	312.50
Board	262.50
600, 616 and 620 West 116th Street	
Room — Single	362.50
Double	337.50
Plimpton Hall	
Room — Single	382.50

The following fees will be charged where applicable:

Application for admission	15.00
Registration in absentia	15.00
Physical education — part-time students	5.00
Late registration for academic work and/or physical education	15.00
Orientation fee (All students entering Barnard College for the first time)	25.00
Senior fee (All graduating seniors)	25.00

Deferred and special examinations, payable in each case before the examination is held:

For each deferred examination	5.00
For each special examination	10.00
(A special or deferred examination is one taken at any time other than the conclusion of a course)	
Late payment fee where applicable	15.00

Late filing of:

Tentative program cards	10.00
Application for deferred examination	5.00
Application for language placement test	5.00

Under certain circumstances, course or departmental charges may be made. Please see announcements of departmental offerings and special requirements for courses in the University.

Deposits

All students: In order to obtain a place on the college roll for the ensuing academic year, students who are currently enrolled must pay a deposit of \$100 toward tuition and fee charges on or before *May 15*. Applicants for admission will be billed for the deposit at the time they signify their acceptance of admission to the College. One-half of this deposit (\$50) will be applied to the charges of the Autumn Term and the remainder to the charges of the Spring Term. The deposit toward the term's charges is forfeited unless the Bursar is notified of a change in plans no later than *August 2* for the Autumn Term or *December 1* for the Spring Term.

Resident students and nonresidents who pay housing fees through the College: a room deposit of \$50 is payable by *May 15* to secure the assignment of a room for the following academic year. One-half of this deposit (\$25) will be applied to the charges of the Autumn Term and the remainder to the charges of the Spring Term. The deposit toward the term's charges is forfeited unless the Bursar is notified of a change in plans no later than *August 2* for the Autumn Term or *December 1* for the Spring Term.

Payment of Charges and Fees

All charges and fees are payable semiannually, in advance. No reduction is made for late registration. Registration is not complete until all charges and fees are paid. Failure to complete registration (including the payment of all charges and fees) on time imposes automatically the statutory charge of \$15 for late registration.

Payment of charges and fees (accompanied by copy of the bill) must be made by *September 1* for the Autumn Term and by

January 17 for the Spring Term. If payments are mailed, envelopes must be postmarked not later than *September 1* or *January 17* respectively. Students admitted for the Autumn Term after *September 1* must pay their bills before the first day of registration. A late payment fee of \$15 will be charged on all payments made or postmarked after midnight on the above dates.

Rooms will not be held for students whose total bills are not paid by *September 1*.

All charges and fees are subject to change at any time at the discretion of the Trustees.

The privileges of the College, including examinations, are not available to any student who is delinquent in the payment of charges or fees. When bills are not paid by their due date or satisfactory arrangements for their payment are not made with the Bursar, the student will be required to withdraw from the College. Financial obligations include not only tuition, fees, and residence charges (if any), but fines due the libraries and other charges which may be incurred.

Checks or money orders in payment of all charges and fees must be in U.S. funds (at a U.S. bank) payable to Barnard College. Checks or money orders should be made out for the exact amount of the payment due.

(The application fee of \$15, payable when application for admission is filed, is not credited on the bill and is never refunded.)

NOTE: Holders of a New York State Regents Scholarship and/or Scholar Incentive Award may deduct the amount shown on their Award Certificate provided the award certificate is enclosed with the bill.

Deferred Payment

Many parents prefer to meet academic expenses out of monthly income, rather than in large cash payments. To these parents, we are making available the services of EFI-Fund Management, 36 S. Wabash, Suite 1000, Chicago, Illinois 60603. It is a national organization specializing in education financing. Information concerning the plans will be sent to all parents in the spring of 1971.

The College will also accept payment made through any bank or trust company or recognized financing agency provided payments are made on or before *September 1* for the Autumn Term or *January 17* for the Spring Term.

Adjustment of Fees and Refunds

For changing program of study: If a student changes her program and the tuition called for is lower than the amount she has already paid, she will be refunded the excess only if the alteration in her program was made by *October 15* in the Autumn Term and by *February 24* in the Spring Term. If the new program calls for higher tuition, the student must pay the difference at the time she registers the program change.

For withdrawal: If a student withdraws from College after *August 2* for the Autumn Term and *December 1* for the Spring Term, the following amount of tuition and residence fees paid will not be refunded:

Tuition and fees	\$50.00
Residence fees	25.00

Up to and including the first Friday of the term (see the College Calendar), the remaining tuition, \$1,165, which the student has paid will be refunded in full. After the first Friday of the term, twenty per cent of the remaining tuition, \$233, will be retained by the College for each additional week, or part of a week, of the semester up to the date on which the student's written notice of withdrawal from the College is received by the Office of the Dean of Studies.

Up to and including the first Friday of the term (see the College Calendar), the remaining residence fees that the student has paid will be refunded in full. After the first Friday of the term, ten per cent of the remaining residence fees will be retained by the College for each week, or part of a week, up to the date on which the student's written notice of withdrawal from the College is received by the Office of the Dean of Studies.

A resident student who moves from the residence halls while still a student in the College will forfeit all residence fee payments.

If a student has made only partial payment on her tuition or room and board, the amount of unpaid balance for each will be deducted from any withdrawal credit that is allowed. If the unpaid balance is larger than the credit allowed, the student must pay the difference.

Refunds: No refunds for board will be made for students who wish to take meals off-campus. Barnard is nondenominational and no provision can be made for special diets.

Other Expenses

The following information may be helpful in budgeting expenses not payable to the College: \$23 for a gymnasium

costume; a minimum of \$150 per year for textbooks; \$275 to cover weekend meals when the dining hall in Brooks-Hewitt-Reid is closed; for students in "600," "616," "620," and Plimpton approximately \$475 for food; for commuting and nonresident students approximately \$175 for lunches at the College; approximately \$350 for clothing, laundry, recreation and miscellaneous expenses. Individual estimates of expense should also include allowances for transportation for nonresident and commuter students, or two round-trip fares from home to college for resident students.

Student Health Service

Campus medical service is available to all Barnard students and is covered by the Health Service fee included in the comprehensive charge payable each term. This service is not available during college vacations.

Medical examinations are required of all freshmen and seniors. (Students are not permitted to register for the succeeding term until the required examination is complete.) The final date for completion of the examination by the College Physician is *December 15* for seniors; *May 15* for freshmen.

Students are entitled to the following services:

Barnard College Medical Office

Advice, treatment, and examination by the Barnard College physicians or nurses.

Columbia Health Service or St. Luke's Hospital, *upon referral by the Barnard College Physician.*

- a. One consultation without charge with any specialist.
- b. Surgical treatment of minor surgical condition.
- c. Laboratory or X-ray studies as indicated.
- d. Ten days a term free care in the Columbia University Infirmary.
- e. Four days of ward care at St. Luke's Hospital for severe acute surgical and medical conditions requiring hospitalization.

The following services are not provided:

Dental care; eye examination, treatment and the fitting and provision of glasses; house calls or room visits; ambulance service; free care for chronic conditions or conditions predating original college matriculation.

Insurance for Foreign Students

Foreign students who are not residing in the United States with members of their families are required to participate in the Accident and Sickness Insurance Plan. The Accident and

Sickness Insurance Plan fee of approximately \$40.20 a calendar year is payable to the American International Life Insurance Co. of New York. Full information concerning this policy will be mailed to the student with her college bill.

Hospital Insurance

All students are eligible for membership in the Associated Hospital-United Medical Service for twelve consecutive months beginning October 1 at a cost of approximately \$102.50. See the Bursar's Office for complete details.

Safekeeping of Students' Funds

Barnard College is not prepared to receive funds from students for safekeeping nor to cash personal checks or travelers checks.

To cover their immediate expenses, students should provide themselves with travelers checks, which can be cashed at a local bank, or money orders, which the Columbia University Station of the U.S. Post Office will cash upon presentation of a validated ID card. A validated ID card is issued after a student registers at the beginning of each term.

It is also possible to open a checking, special checking, or savings account at one of the local banks:

Chemical Bank

Broadway and 113th Street, New York, N.Y. 10025

First National City Bank of New York

Broadway and 111th Street, New York, N.Y. 10025

American Savings Bank

Broadway and 111th Street, New York, N.Y. 10025

In so far as possible, the College helps qualified students who have financial need. Since the College fees do not cover the entire cost of her education today every student at Barnard in effect receives some financial aid from past donors. The balance is made up by endowment income and gifts. In addition to grants and loans, opportunities for part-time employment are provided to open Barnard's doors to girls of superior talent from all sections of the country. (See Office of Placement and Career Planning, pages 48-49.) Students are urged to investigate federal and state aid programs and college tuition financing plans offered by local banks and insurance companies.

Annual Awards

Loans or combination grant-and-loan awards are made by the Committee on Financial Aid to full-time students who have financial need and have demonstrated academic competence. *The College shall be the sole judge of the financial aid to be granted, and may at any time withdraw or discontinue such aid.* The amount of the award depends on the student's financial need and is determined from the following:

1. The amount of the parents' contribution as estimated from information given on the Parents' Confidential Statement of the College Scholarship Service.
2. The amount available from other sources, such as the New York State Regents Scholarships and New York State Scholar Incentive Awards.
3. The student's pre-college savings.
4. The student's summer savings (\$300 for freshmen, \$400 for sophomores, and \$500 each for juniors and seniors).
5. After the freshman year, the student's earnings from part-time work during the academic year (\$250 for sophomores and \$300 each for juniors and seniors).

The basic budget used to compute financial need includes, in addition to the college fees, allowances for other expenses as described on pages 203-204.

Awards are for one year only. Students in good standing are eligible to apply for further assistance in subsequent years.

Applications for financial aid for entering students may be obtained from the Admissions Office and should be returned to that Office on or before January 1. The student applies in terms of financial need, not for any one of the specific scholarships listed in the following pages.

Entering Students: Entering students who are applying for aid

must also file a Parents' Confidential Statement with the College Scholarship Service, Box 176, Princeton, New Jersey 08540, or Box 881, Evanston, Illinois 60204, or Box 1025, Berkeley, California 94701, not later than January 1 of the senior year in high school. Forms should be obtained from the high school. The Service acts as a central filing and distributing agent. Photographic copies of the completed statements will be sent to the colleges named by the applicant.

Each applicant must complete and file both forms as instructed above in order to be considered for financial aid. Applicants are notified of awards at the time they receive their notice of admission to the College.

If an entering student applies to more than one college in the Seven College Conference (Barnard, Bryn Mawr, Mount Holyoke, Radcliffe, Smith, Vassar, and Wellesley), her application is reviewed by the appropriate members of the Conference in order that awards may be made on a noncompetitive basis. Amounts vary only according to the difference in fees and, whenever possible, are equivalent in value.

Students in College: Students in college who are in need of financial aid and are academically qualified must file applications on special forms obtainable in the Financial Aid Office. Applications must be filed on or before February 11, 1972.

Applicants will be notified as soon as awards are made. Recipients are requested to inform the Office of Financial Aid immediately, in writing, of their plans with respect to the funds assigned to them.

New York State Scholar Incentive Awards

Any student who has been a legal resident of New York State for the preceding year is entitled to a Scholar Incentive Award (\$50 to \$300) for eight terms while she is registered as a full-time degree candidate. The amount of this award is based upon the net taxable balance of her income and the income of those responsible for her support, as reported on the New York State Income Tax Return for the previous year. Application for awards must be made annually and should be filed before July 1 for each academic year. Further information and application forms may be obtained from Regents Examination and Scholarship Center, 800 North Pearl Street, Albany, N.Y. 12204.

New York Regents College Scholarships

The Regents of the University of the State of New York award, each year, scholarships to full-time degree candidates who are legal residents of New York State. These awards are based on the Regents Scholarship Examination and are open to students

in any approved college or university in the state. Awards range between \$125 to \$500 a term, depending upon need. High school students can get further information from their counselors at school. New York Regents Scholarships are not automatically renewed; they must be reapplied for annually.

Loan Funds

There are various loan funds at Barnard available for assignment to students as a part of their financial aid.

*Barnard College
Loans*

The Associate Alumnae of Barnard College maintain a Student Loan Fund from which loans to seniors are made. In 1950, through a gift of \$26,000 from Mr. and Mrs. Gerard Swope and Miss Henrietta Swope, an additional fund known as the Swope Loan Fund was established. In the spring of 1960, the Barnard College Loan Fund was established by the Board of Trustees to help meet the increased need of students. In 1961, the Pauline Hirschfeld Loan Fund was established with a bequest of \$5,000 from Pauline Steinberg Hirschfeld, '08. In 1966 two new loan funds were established: the Barnard College Club of Cleveland Loan Fund with gifts of \$1,276, to be used with preference for a student from the Northeastern Ohio area; and the Ann Susan Becker Memorial Loan Fund with gifts of \$1,530 from her family. In 1968 the Adelaide Le Clercq Loan Fund was established with a gift of \$3,000 from Adelaide M. Hart, '06, to be used with preference for a student majoring in music or French. In 1971 the Gertrude C. Hitchcock Loan Fund was established with \$100,000 of the bequest of Gertrude C. Hitchcock.

These funds are administered by the Committee on Financial Aid. Loans are regularly assigned as part of a student's financial aid award. No interest is charged while the student is in college. Payments on principal may be made at any time before graduation. Principal of indebtedness is repaid in semiannual installments of \$150 each after the student ceases to be in full-time attendance at Barnard College. Interest is charged from the first day of the month after the student ceases to be in full-time attendance at Barnard College at the rate of three per cent per annum on the unpaid balance.

The Morris Morgenstern Student Loan Fund of \$5,000 was established in 1959. Interest-free loans not to exceed \$500 are granted upon application to the Financial Aid Office to any deserving undergraduates, other than freshmen, who are in need of temporary emergency assistance. Loans are granted for short terms, no longer than a year from the date of issue.

The Tudor Foundation Student Loan Fund of \$5,000 was established in 1967. Interest-free loans not to exceed \$1,000 in any one academic year are granted upon application to the Financial Aid Office, to mature when the student terminates her connection with the College.

*National Defense
Student Loan
Program*

Barnard participates in the National Defense Student Loan Program (Title II of the National Defense Education Act of 1958). A portion of the funds for this Program are granted to the College by the federal government after application by the College; the balance of the funds are contributed by Barnard. These loans are assigned by the College to students as a part of their financial aid. Special consideration is given to those students who intend to teach in college or in public or private elementary or secondary schools.

State Loans

Legal residents of the State of New York who are degree candidates are eligible to apply for loans guaranteed by the New York Higher Education Assistance Corporation. No interest is charged as long as the student is registered as a full-time student, but interest and repayment of principal must begin when a student ceases to be so registered. Further information and application forms for these loans should be obtained from local banks.

Other states also have loan plans through the Federal Guaranteed Loan Program. Students should inquire at their local banks regarding such loan plans.

**Barnard College
Scholarship Funds**

A list of scholarship funds established by gifts, endowment, or in trust follows. The income from such funds, both unrestricted and restricted, and from the funds for grants-in-aid is available each year.

Unrestricted¹

Niels J. Allison Fund (1964).

From the estate of Beatrice C. Allison '12. \$55,229.

Alumnae Scholarship Fund (1922).

A tenth reunion gift by the Class of 1912, subsequently supplemented by legacy from the estate of Julia Ludlow Young and by gifts of other alumnae. \$18,242.

Anna E. Barnard Scholarship Fund (1899).

In honor of Mrs. John G. Barnard by Emily H. Bourne. \$3,000.

Frances E. Belcher Scholarship Fund (1963).

By bequest of Miss Frances E. Belcher. \$42,257.

Ruth Marshall Billikopf Scholarship Fund (1950).

In honor of Ruth Marshall Billikopf '19. \$5,000.

Varian White Blumberg Scholarship Fund (1952).

From the estate of Varian White Blumberg '13. \$5,000.

¹ Figures compiled as of January 1, 1971.

**Charles E. Bogert Memorial Scholarship and Anna Shippen
Young Bogert Memorial Scholarship Fund (1913).**

By bequest of Annie P. Burgess. \$10,000.

Eva-Lena Miller Booth Scholarship Fund (1932).

In memory of Mrs. Eva-Lena Miller Booth, by the New York City Chapter of the Daughters of the American Revolution. \$1,000.

Josephine Brand Scholarship Fund (1970).

By bequest of Josephine Brand, the income therefrom to be expended within twenty-five years for scholarships. \$45,363.

Brearley School Scholarship Fund (1889).

By pupils and former pupils of the Brearley School. \$3,000.

Martha Ornstein Brenner Scholarship Fund (1915).

In memory of Martha Ornstein Brenner '99, by her friends. \$4,000.

Arthur Brooks Fund (1897).

By Olivia E. Phelps Stokes as a memorial to the Reverend Arthur Brooks, D.D., Rector of the Church of the Incarnation and Chairman of the Board of Trustees of Barnard College during the first six years of its existence. \$5,000.

Thomas F. Clark Students' Fund (1928).

By bequest of Mrs. Fanny Foster Clark. \$100,000.

Jennie B. Clarkson Scholarship Fund (1898).

By Mrs. W. R. Clarkson. \$3,000.

Class of 1921 Scholarship Fund (1931).

A tenth reunion gift by the Class of 1921. \$2,500.

Class of 1954 Scholarship Fund (1955).

Gifts of the Class of 1954 through their fifth reunion in 1959. \$4,584.

College Bowl Scholarship Fund (1968).

Established with gifts from the General Electric Company, *Seventeen* Magazine, and Gimbel's Department Store, earned by the Barnard College Bowl Team's five successive victories. \$19,500.

Vera B. David Scholarships (1962).

Income from the trust established by bequest of Vera B. David in memory of her late husband, John David.

Ada M. Donelle Scholarship Fund (1948).

By bequest of Mrs. Ada M. Donelle. \$121,751.

Margaret Jane Fischer Scholarship Fund (1968).

With a gift from Margaret Jane Fischer '35. Awarded annually. \$10,014.

Fiske Scholarship Fund (1895).

By Mrs. Martha T. Fiske-Collord. \$5,000.

Doris P. Gallert Scholarship Fund (1970).

Established by Trustees out of funds left to the College by a bequest of Doris P. Gallert, income to be used for general scholarship purposes, until further action of the Trustees. \$6,000.

Galway Fund (1912).

By an anonymous donor. \$2,400.

Anita Hyman Glick Scholarship Fund (1968).

In memory of Anita Hyman Glick '62 by her family and friends.
Awarded annually to students who are academically qualified and
in need of financial aid. \$10,755.

Irma Alexander Goldfrank Fund (1919).

In memory of Irma Alexander Goldfrank '08, by her friends. \$2,106.

Graham School Scholarship Fund (1907).

By the Graham Alumnae Association. \$7,300.

Louise H. Gregory Scholarship Fund (1955).

From gifts in memory of Louise H. Gregory. \$4,497.

Harkness Scholarship Fund (1939).

With a gift from Edward S. Harkness. \$100,000.

Rita Hilborn Hopf Memorial Scholarship Fund (1966).

By bequest of Rita Hilborn Hopf '14. \$270,403.

Charles Evans Hughes Scholarship Fund (1952).

By bequest of Charles Evans Hughes. \$14,300.

Lily Murray Jones Scholarship Fund (1950).

In memory of Lily Murray Jones '05, Alumnae Trustee from 1939
to 1943, by Murray, Alfred, and Wallace Jones. \$25,146.

Marjorie Lawrence Kaufman Scholarship Fund (1965).

By the Trustees out of funds left to the College by the life income
contract of Marjorie Lawrence Kaufman '19. \$24,290.

Dr. Ann G. Kuttner Scholarship Fund (1969).

By the Trustees, out of funds left to the College by the life income
contract and bequest of Dr. Ann G. Kuttner. \$184,015.

Augusta Larned Scholarship Fund (1924).

By bequest of Augusta Larned. \$10,000.

Marjorie Herrmann Lawrence Scholarship Fund (1967).

In memory of Marjorie Herrmann Lawrence '19. \$16,000.

Harriett Mooney Levy Scholarship Fund (1965).

By bequest of Harriett Mooney Levy. \$69,339.

Joan Sperling Lewinson Scholarship Fund (1955).

With a gift from Joan Sperling Lewinson '13. \$32,024.

Judith Lewittes Scholarship Fund (1957).

In memory of Judith Lewittes '55, by her family and friends. \$5,769.

Anne Elizabeth Lincoln Scholarship Fund (1963).

From the estate of Anne Elizabeth Lincoln '24. \$8,441.

Amy Loveman Scholarship.

See Undergraduate Awards, page 223.

Louise Grace Luby and James Luby Scholarship Fund (1947).

From the estate of Grace Farrant Luby '93. \$5,000.

Jeanne S. Mattersdorf and Bertha Miller Memorial Scholarship Fund (1970).

Established by Stephanie Mattersdorf Miller, the income from the fund shall be awarded to Barnard students based solely on need. \$4,569.

Cecile Lehman Mayer Scholarship Fund (1962).

With a gift from Mr. and Mrs. Paul Mazur, the income to be awarded annually for financial aid to the maximum of four or fewer students. \$25,000.

Memorial Scholarship Fund (1954).

To receive contributions in memory of deceased alumnae and friends. \$38,769.

William Moir Scholarship Fund (1912).

In memory of William Moir by his wife. \$10,000.

Caroline Church Murray Fund (1918).

In memory of his wife, Caroline Church Murray, by George Welwood Murray. \$5,000.

Annette Florance Nathan Scholarship Fund (1947).

From the estate of Frederick Nathan. \$3,000.

Dora R. Nevins Scholarship Fund (1969).

In loving memory of Dora R. Nevins by bequest of Nannie R. Nevins. \$12,500.

Lucretia Perry Osborn Scholarship Fund (1940).

In memory of Lucretia Perry Osborn, a Trustee of Barnard College from 1893 to 1930, by her family and friends. \$5,000.

Jean T. Palmer Scholarship Fund (1969).

Established by gifts of alumnae and other friends, the income to be awarded by the Committee on Financial Aid or its equivalent, to Barnard students with financial need who are in good standing, regardless of their academic averages. \$126,570.

M. Gladys Quinby Scholarship Fund (1961).

By bequest of M. Gladys Quinby '08 and gifts of friends. \$5,000.

Eva Rich Scholarship Fund (1968).

By bequest of Eva Jacobs Rich '07. \$53,243.

Peter C. Ritchie, Jr. Scholarship Fund (1937).

By bequest of Virginia J. Ritchie. \$4,436.

Edith Lowenstein Rossbach Memorial Scholarship Fund (1950).

In memory of Edith Lowenstein Rossbach '19, by her family, friends, and classmates. \$23,304.

Edna Heller Sachs Scholarship Fund (1955).

With a gift from Edna Heller Sachs '10. \$16,260.

Eleanor Butler Sanders Scholarship Fund (1922).

By bequest of Henry M. Sanders. \$10,000.

Anna M. Sandham Scholarship Fund (1922).

By bequest of Anna M. Sandham to Columbia University. \$10,000.

Schmitt-Kanefent Scholarship Fund (1931).

By bequest of Catherine Schmitt. \$7,102.

Scholarship Fund (1901).

By general subscription through the Scholarship Committee of the Board of Trustees. Approximately \$11,980.

Katherine Flint Shadek Scholarship Fund (1961).

By Katherine Flint Shadek '44. \$17,000.

Emily James Smith Scholarship Fund (1899).

In honor of Miss Smith, Dean of Barnard College from 1894 to 1900, by Emily H. Bourne. \$3,000.

George W. Smith Scholarship Fund (1906).

In memory of George W. Smith, a Trustee of Barnard College, by Mrs. Martha T. Fiske-Collord. \$5,000.

Edna Phillips Stern Scholarship Fund (1952).

In memory of Edna Phillips Stern '09, by her family and friends. \$21,797.

Isabel Greenbaum Stone Scholarship Fund (1957).

In memory of Isabel Greenbaum Stone '18, by her family. Recipients of these scholarships are urged to repay the amounts they receive as soon as they are in a position to do so. \$17,415.

Fannie Manwaring Sturtevant and Daniel Dwight Sturtevant Scholarship Fund (1969).

Established with a bequest from Ethel G. Sturtevant, Assistant Professor of English, retired, the income to be awarded to Barnard students. \$20,000.

Solon E. Summerfield Foundation Scholarship Fund (1960).

Gifts from the Solon E. Summerfield Foundation. \$13,500.

Veltin School Scholarship Fund (1905).

By the alumnae of Mlle. Veltin's School. \$3,000.

Alma F. Wallach Scholarship Fund (1951).

In memory of Alma F. Wallach from the estate of Richard L. Leo. \$1,000.

Ella Weed Scholarship Fund (1895).

In memory of Ella Weed, Chairman of the Academic Committee of the Board of Trustees of Barnard College during the first five years of its existence, by pupils and alumnae of Miss Anne Brown's School. Approximately \$8,602.

Hymen and Helen Werner Scholarship Fund (1964).

In memory of Hymen and Helen Werner. Established by Helen Frankfield Werner '06 in 1953 in memory of her husband. Following her death maintained as the Hymen and Helen Werner Scholarship Fund by her daughters, Therese Werner Kohnstamm '33, Laura Werner Wallerstein '36 and Jean Werner Kane '37. \$6,668.

Restricted¹**Mary Gertrude Edson Aldrich Fund (1916).**

By Mrs. James Herman Aldrich to assist, in her senior year, a student

¹ Figures compiled as of January 1, 1971.

who has shown in her college life the moral qualities which go to the making of fine womanhood. \$1,000.

Bertha R. Badanes Scholarship Fund (1966).

By Bertha R. Badanes '14. For children of New York City school teachers preferably from Brooklyn. If there is no qualified candidate the award may be used for another needy student, preferably from Brooklyn. \$5,000.

Barnard College Club of Houston Scholarship Fund (1969).

Established until further action of the Board of Trustees with the income to be awarded to students from the Houston area. \$7,000.

Barnard College Club of New York Scholarship Fund (1952).

For a Barnard student whose home is outside the area of the City of New York. \$36,779.

Barnard-in-Westchester Endowment Fund (1962).

By the Barnard College Club of Westchester County. For scholarships, preferably for students from Westchester County. \$15,654.

Barnard School Alumnae Scholarship Fund (1916).

By the alumnae of the Barnard School for Girls. Awarded to a student in any class, preference being given to nominees of the school. \$4,000.

Willina Barrick Memorial Scholarship Fund (1936).

In memory of Willina Barrick '00, by the College Club of Jersey City. Awarded on the nomination of the Club to a graduate of a Jersey City secondary school. \$10,635.

Irving Berlin Scholarship Fund (1950).

By Irving Berlin. Awarded annually to one or more girls of foreign-born parentage. \$23,500.

Ida Blair Memorial Fund (1937).

In memory of Ida Blair by the Women's Democratic Union. To be used for the purchase of books for a student, preferably one studying political science. \$700.

Alice Marie-Louise Brett Scholarship Fund (1930).

In memory of his daughter, Alice Marie-Louise Brett '15, by bequest of Philip E. Brett. Awarded during her senior year to a student specializing in French. \$10,000.

William Tenney Brewster and Anna Richards Brewster Fund (1961).

By bequest of William Tenney Brewster. To be awarded preferably in amounts not less than \$1,000, with priority to daughters of professional people educated in independent schools. \$166,614.

Brooklyn Scholarships (1895).

By the Trustees of Columbia University in recognition of the gift to Columbia University by President Seth Low of a memorial building for the University Library. Open to students residing in Brooklyn and prepared in a Brooklyn school. Twelve at \$150 each.

Anne Brown Endowment Scholarship Fund (1939).

In memory of Anne Brown, by the Anne Brown Alumnae Association, for young women of the City of New York. Approximately \$31,339.

Carpentier Residence Scholarship Fund (1919).

By bequest of Horace W. Carpentier. Awarded annually to students who are not residents of New York City or its vicinity. \$200,000.

Eliza Taylor Chisholm Memorial Scholarship Fund (1901).

By the Alumnae Association of Miss Chisholm's School, which Association reserves the privilege of precedence for such candidates as it may recommend. \$3,000.

Mrs. Henry Clarke Coe Scholarship Fund (1910).

By the National Society of New England Women, now the New York City Colony of the National Society. Awarded, on nomination of the Chairman of the Scholarship Committee of the New York City Colony, to a student from New England or of New England parentage. After the award is made the Society requires from the beneficiary full obedience to discipline and the highest ideals of scholarship. This may be awarded to an entering freshman. \$3,600.

Class of 1919 Decennial Fund (1929).

A tenth reunion gift by the Class of 1919, for a resident student. \$5,000.

Augusta Salik Dublin Scholarship Fund (1960).

In memory of Augusta Salik Dublin '06, by her family and friends. Awarded at the discretion of the Committee on Financial Aid to a Barnard student, to enable her to continue her education in preparation for leadership in a field of social welfare, such as social work, social legislation, housing and city planning, or a related area. Available either to a student for undergraduate study or to a graduating student for graduate work, for one or more years. \$13,182.

Educational and Cultural Trust Fund of the Electrical Industry Scholarships (1951).

By the major electrical contracting firms of New York City for sons and daughters of members of Local Union No. 3 of the International Brotherhood of Electrical Workers. Variable in number.

English Scholarship Fund (1920).

By an anonymous donor. Awarded to a student of good standing who is specializing in English and is in need of help; with the proviso that, if in any year there is no student specializing in English who is particularly deserving of aid, the scholarship may be used to assist a student majoring in some other subject. \$5,000.

Gladys Renshaw Esterbrook Scholarship Fund (1958).

In memory of her daughter, Gladys Renshaw Esterbrook '20, by bequest of Minnie R. Esterbrook. Preference is given to applicants majoring in English or French. \$5,000.

Martha T. Fiske Scholarship Fund (1911).

In memory of her sister, Mrs. Martha T. Fiske-Collord, by Anna E. Smith. Awarded to an applicant not a resident of New York City or its suburbs. \$5,000.

Helen Jenkins Geer Scholarship Fund (1940).

In memory of her mother, Helen Jenkins Geer '15, by Helen Hartley Geer '40. Awarded annually, after conference with the donor. \$5,000.

Virginia Gildersleeve International Scholarship Fund (1937).

In honor of the international work of Dean Emeritus Gildersleeve, by Charles R. Crane. Awarded annually to a foreign student coming to Barnard to study. \$15,100.

Virginia C. Gildersleeve Scholarship Fund (1968).

In memory of Dean Emeritus Gildersleeve by the Class of 1923 on their forty-fifth reunion. Awarded to a student majoring in the humanities, with priority given to an English major. \$5,215.

Julius Held Scholarship Fund (1970).

Established by gifts of alumnae and other friends, the income from the fund shall be awarded annually to a deserving student majoring in Art History. \$24,801.

Emma Hertzog Scholarship Fund (1904).

With gifts from residents of Yonkers, New York. Awarded in conference with the faculty of the Yonkers High School, to a graduate of that school. \$3,000.

Marion Alice Hoey Fund (1944).

In memory of Marion Alice Hoey '14, by Nellie Poorman. Preference is given to applicants studying Greek and Latin. \$2,000.

Lillia Babbitt Hyde Scholarship Fund (1953).

By the Lillia Babbitt Hyde Foundation. Awarded to premedical students. \$25,000.

Charlotte Louise Jackson Scholarship Fund (1928).

In memory of Charlotte Louise Jackson, by bequest of her sister, Fannie A. Jackson. Awarded to a graduate of a Yonkers High School selected by or under the direction of the Board of Education of Yonkers. \$5,000.

Mary E. Larkin Joline Scholarship Fund (1927).

By bequest of Mary E. Larkin Joline. Awarded to a student who is specializing in music. \$10,000.

Werner Josten Scholarship Fund (1955).

With a gift from Mrs. Werner Josten. Preference is given to a student majoring in music, but if in any year no such student is eligible, the scholarship may be awarded to a student majoring in some other field. \$25,916.

Jessie Kaufmann Scholarship Fund (1902).

In memory of his daughter, Jessie Kaufmann, by Julius Kaufmann. Awarded on the merits of entrance examinations to a student who, after careful investigation, is found to have no relative able to assist her financially. It may be held for the entire college course. \$4,000.

Kimball Scholarship Fund (1938).

By bequest of Lillian Emma Kimball. Awarded to a woman from Spain or one of the Spanish-American countries who shall pursue a year of graduate or undergraduate study at Barnard or elsewhere, under the direction of the Barnard Department of Spanish. \$32,883.

Eleanor Kinnicutt Scholarship Fund (1911).

In memory of Mrs. Francis P. Kinnicutt, a Trustee of Barnard College. Awarded at the end of the freshman year to a student of exceptionally high standing. It may be held for three years, provided the recipient continues to maintain a high rank. \$5,000.

Carolina Marcial-Dorado Scholarship Fund (1953).

In memory of Professor Carolina Marcial-Dorado, for many years head of the Barnard College Department of Spanish. Awarded to a student from Spain, or to a Spanish major continuing graduate studies in the United States or abroad. If at any time there is no applicant eligible for the grant, it may at the discretion of the department be awarded to a student who is majoring in Spanish. \$15,378.

Eugene F. and Minnie Gouger McGowan Scholarship Fund (1955).

By an anonymous donor. Preference is given to candidates from Mecklenburg County, North Carolina. If in any year no such candidate is eligible, the scholarship may be awarded to a student or students from other areas. \$10,000.

Fannie Moulton McLane Scholarship Fund (1961).

By bequest of Fannie Moulton McLane '07. Awarded for tuition to deserving students who are citizens of the United States of America, with preference given to those, if any, who satisfactorily establish that they are of Colonial or Revolutionary ancestry, or the descendants of a Civil War soldier. \$7,500.

Mrs. Donald McLean Scholarship Fund (1906).

By the New York City Chapter of the Daughters of the American Revolution. Awarded, in conference with a representative of the Chapter, to a student who agrees to pursue the study of history (chiefly that of the United States) continuously throughout her college course. \$3,000.

Ferry Starr Morgan Scholarship Fund (1959).

In memory of her father, by bequest of Grace B. Morgan '19. Awarded to a student who is majoring in music or philosophy. \$10,000.

Lawrence Morris Scholarship Fund (1968).

In memory of Lawrence Morris by his sister Mrs. Walter Sturges (Alice Morris '36) and other members of the family. Awarded annually with preference given to a nominee of the New York City Mission Society. \$11,590.

Mary Barstow Pope Scholarship Fund (1913).

In memory of Mary Barstow Pope, teacher in Miss Chapin's School, by her friends, her fellow teachers, and her pupils. Open to any undergraduate for the whole or part of her course, and awarded on the nomination of a self-perpetuating committee representing the founders. \$4,000.

Public Service Scholarship Fund (1934).

By the Women's Organization for National Prohibition Reform. Awarded to young women of exceptional ability, interested in following a career of public service in the field of political science, who show special promise of future usefulness in the public service. Awarded at the discretion of the Faculty of Barnard College to one or two students in their junior or senior years. In the case of a particularly promising student the Faculty may, at its discretion, extend the award to cover one, two, or three additional years of graduate study at an approved college or university in order to encourage young women of exceptional ability to complete a course of study which will fit them for service in public life. \$30,000.

Lucille Pulitzer Scholarship Fund (1899).

In memory of his daughter, Lucille Pulitzer, by Joseph Pulitzer. Three are restricted to students from the City of New York; eight are for resident students. \$176,459.

Amelia Agostini de del Rio Scholarship Fund (1955).

In honor of Amelia de del Rio, Chairman of the Department of Spanish from 1942 to 1962. Awarded to a student from Mrs. de del Rio's native island of Puerto Rico. If at any time there is no applicant from Puerto Rico eligible for the grant, it may, at the discretion of the department, be awarded to a student who is majoring in Spanish. \$21,333.

Dr. Harry Rosenstein Scholarship Fund (1967).

In memory of Dr. Harry Rosenstein by his wife, Bertha Z. Rosenstein, and daughter, Gertrude L. Rosenstein '48. Awarded to a premedical student. \$5,000.

Joan Rosof Scholarship Fund (1964).

By Mr. Murray Rosof in honor of his daughter, Joan Rosof '61. Awarded to qualified students with the wish, but not the directive, that preference be given to his descendants or, in the absence thereof, to students from the State of New York. \$5,340.

Felix St. George Scholarship (1955).

In memory of her father, Felix St. George, by bequest of Ida St. George. Awarded to an incoming freshman whose subject of interest is a science or premedical course, more particularly physics, chemistry, or biology. \$7,455.

Dorothy K. Scheidell Scholarship Fund (1965).

In memory of Dr. Dorothy K. Scheidell '28, by her family, classmates, and friends. Awarded to a premedical student. If in any year no student qualifies for the award, it may be deferred until the following year. If no student qualifies over a three-year period, the accumulated income may be awarded to any able student with financial need. \$5,495.

Lillian Schoedler Scholarship Fund (1967).

By bequest of Lillian Schoedler '11. Income and/or principal awarded to deserving students with financial need who have shown promise of qualities of leadership and/or potentialities for future civic or social usefulness. Awards preferably distributed in small amounts to many students. \$65,860.

Fred Curtis Smith Memorial Scholarship Fund (1955).

In memory of Fred Curtis Smith, at the time of his death Vice President and Mortgage Officer of the Bowery Savings Bank. \$57,000.

Hilda Staber Scholarship Fund (1967).

By bequest of Hilda Staber '05. Awarded to foreign students of character and ability. \$25,000.

Emma A. Tillotson Scholarship Fund (1910).

By Mrs. Luther G. Tillotson. Awarded at the end of the freshman year to a student of exceptionally high standing. It may be held for three years, provided the recipient continues to maintain a high rank. \$5,000.

Clara Battenwieser Unger Memorial Fund (1938).

In memory of his daughter, Clara Battenwieser Unger '13, by

Joseph L. Bittenwieser. Awarded annually to assist through her senior year a student whose subject of major interest is government, and who shows promise of ability to contribute to the promotion and perpetuation of true democracy under our Constitution. \$2,500.

Helen Elizabeth Vosburgh Scholarship Fund (1934).

In memory of Helen Elizabeth Vosburgh '25, by bequest of Katherine G. Lippke. Preference is given to a self-supporting student. \$5,000.

Gertie Emily Gorman Webb Scholarship Fund (1953).

By Charles Webb. Awarded to a student nominated by the Department of History. \$4,990.

Alma Gluck Zimbalist Scholarship Fund (1940).

By bequest of Alma Gluck Zimbalist. Awarded annually to a student who wishes to major in political science. \$10,000.

**Established on a
Temporary Basis**

Barnard-in-Brooklyn Club Scholarship (1944).

A tuition scholarship, with variable stipend. Awarded annually, with preference given to a student from Brooklyn.

The Barnard College Club of Detroit Scholarship (1958).

A tuition scholarship with variable stipend. Awarded annually, with preference given to a new student from Metropolitan Detroit.

Fairfield County Scholarship (1962).

Awarded preferably to entering freshmen from Fairfield County for one year only.

Arlene Hershey Memorial Scholarship (1964).

A scholarship with variable stipend awarded annually to a senior in the Education Program.

Holland Dames Scholarship (1915).

In honor of Fanny I. Helmuth, by the Society of Daughters of Holland Dames. Awarded in conference with a representative of the Society to a student descended from the early Dutch settlers.

Helen Rose Scheuer Scholarship (1966).

A \$2,000 scholarship awarded annually for five years. Given in honor of Helen Rose Scheuer '16, by her husband, Mr. S. H. Scheuer.

Thrift Shop Scholarships (1938).

Awarded annually from the proceeds of the Barnard Scholarship Unit of Everybody's Thrift Shop, 330 East 59th Street, New York, N.Y. 10022.

The following funds were established to honor those who have shown exceptional distinction in their chosen field of study. The income from these funds is awarded each year, unless otherwise stated.

Graduate Fellowships

Associate Alumnae of Barnard College Graduate Fellowship (1963).

To be awarded annually to a graduate who shows exceptional promise in her chosen field of work. \$50,000. Applications must be filed in the Alumnae Office by February 1.

George Welwood Murray Graduate Fellowship Fund (1930).

By George Welwood Murray. Awarded as an academic honor to that member of the graduating class of Barnard College who, in the opinion of the Faculty, shows most promise of distinction in her chosen line of work in the field of the humanities and/or the social sciences. Should the recipient prove in no need of financial assistance, she may retain the title and honor but resign the income, which may then be used by the College for other fellowships or scholarships. Students who have graduated in February are eligible as well as those who are to graduate in June. The holder is to pursue a year of graduate study at Columbia or any other university or college of approved standing. \$20,000.

Grace Potter Rice Fellowship Fund (1935).

In memory of his wife, Grace Potter Rice, Instructor and Assistant Professor of Chemistry at Barnard from 1918 to 1934, by Winthrop Merton Rice. Awarded as an academic honor to the member of the graduating class of Barnard College who, in the opinion of the Faculty, shows most promise of distinction in her chosen line of work. Should the recipient prove in no need of financial assistance, she may retain the title and honor but resign the income, which will then be used for other fellowships or scholarships. Students who have graduated in February are eligible, as well as those who are to graduate in June. The holder is to pursue a year of graduate study in the natural sciences or mathematics at Columbia or any university or college of approved standing. \$24,000.

The Herbert Maule Richards Fund (1933).

In memory of Professor Richards, a member of the Department of Botany from 1896 to 1928 and Chairman from 1897 to 1928, by the Barnard Botanical Club, former students, and friends. Granted from time to time to further botanical research, under the direction of an approved institution, to a student or an alumna of Barnard College. \$5,000.

Alpha Zeta Club Graduate Scholarship Fund (1936).

By the Alpha Zeta Club, Inc. Awarded at the discretion of the Faculty as an academic honor to a member of the graduating class of Barnard College who, in their opinion, shows promise of distinction in her chosen line of work. It may also be awarded to an outstanding recent Barnard graduate who is a candidate for a higher degree. \$18,038.

William Mason Scholarship (1928).

The William Mason Scholarship in music is awarded periodically on recommendation of the Department of Music to a member of

the graduating class of Barnard or Columbia College for graduate studies in music. An award of \$500.

Margaret Meyer Graduate Scholarship Fund (1952).

In memory of Margaret Meyer Cohen '15, by bequest of Annie Nathan Meyer. Awarded to a student in the graduating class for instruction in secretarial work. \$3,000.

Graduate Prizes

Frank Gilbert Bryson Prize (1931).

In memory of Frank Gilbert Bryson, by bequest of Ella Fitzgerald Bryson '94. The President of the College shall fix the method of selecting a senior who, in the opinion of the class, has given conspicuous evidence of unselfishness and who has made the greatest contribution to Barnard during her college career. Income on \$3,000.

Anne Davidson Prize (1965).

In honor of Anne Davidson by the R. W. Davidson family and friends. Awarded at the discretion of the Geology and Geography Department to a graduating senior who has demonstrated continuing interest in the study of Conservation, Natural Resources, or an allied field. The holder is to pursue a year's graduate study in one of these fields at Columbia or any other university of approved standing. Income on \$10,000.

Dean Prize in German (1925).

By Edward D. Adams for the promotion of the study of German language and literature in Barnard College. Awarded to that member of the senior class who has throughout her course done the best work in German language and literature. Income on \$1,000.

The Michael T. Glynne Memorial Prize (1971).

By Linda A. Glynne '71. Awarded annually to the senior accepted by a medical school who has demonstrated outstanding achievement in the humanities and the social sciences. She must be a non-science major. \$100.

Kohn Mathematical Prize (1892).

By Mrs. S. H. Kohn. Awarded to a senior for excellence in mathematics. Competitors for this prize must have pursued mathematics continuously during their college course. Income on \$1,000.

**Undergraduate
Awards¹**

Estelle M. Allison Prize Fund (1937).

By bequest of Estelle M. Allison. Awarded to a student for excellence in literature. Income on \$1,001.

Mary E. Allison Prize Fund (1937).

In memory of her mother, Mary E. Allison, by bequest of Estelle M. Allison. Awarded to a student for general excellence in scholarship. Income on \$1,001.

**The American Statistical Association Prize,
New York Area Chapter (1960).**

Awarded annually to the outstanding undergraduate student in statistics. A one-year student membership in the American Statistical Association and \$50.

Edna Henry Bennett Memorial Fund (1927).

In memory of Edna Bennett '15, Lecturer in Zoology, by her friends. Awarded by the Department of Biology for work at a biological laboratory offering summer courses. Income on \$1,640.

¹ Figures compiled as of January 1, 1971.

Borden Freshman Prize (1962).

A prize of \$200 awarded to the freshman who carries a full academic program throughout the year and receives the highest average in her class. In the event of a tie it will be awarded to the student whose program was the heaviest. During the autumn immediately following, the winner will be announced and the prize awarded, regardless of whether or not she returns to Barnard. \$2,000 from the Borden Company Foundation.

Eugene H. Byrne History Prize Fund (1960).

In memory of Eugene H. Byrne, Professor of History at Barnard College and Executive Officer of the Department from 1931 to 1949, by his wife, Janet M. Byrne, and friends. Awarded for superior work to an undergraduate majoring in history. Income on \$3,604.

Helen Marie Carlson French Prize Fund (1965).

In memory of Helen Marie Carlson by her family and friends. Awarded to the student who writes the best composition in fourth-term French (French 4), the course which Miss Carlson directed for many years, or a similar course at the discretion of a board of three judges chosen by the College. \$3,008.

The Columbia University Press Prize.

A copy of the Columbia Encyclopedia is awarded by the Columbia University Press to the member of the sophomore class who has done the best writing for Barnard Bulletin.

Helen R. Downes Prize (1964).

In honor of Professor Emeritus Helen R. Downes '14, Chairman of the Barnard College Department of Chemistry from 1945 to 1960, by former students and friends. Awarded at the end of her senior year to the student who, in the opinion of the Premedical Committee, shows greatest promise of distinction in medicine or the medical sciences. Income on \$1,932.

The Jenny A. Gerard Medal (1908).

The Jenny A. Gerard Gold Medal, given by the Society of the Colonial Dames in America in memory of Mrs. James Gerard, late President of the Society, is awarded annually to the student who is most proficient in Colonial history.

German Prize Fund (1950).

Awarded at the end of her junior year to an outstanding student majoring in German. In case the winner does not need scholarship help, the award shall be a prize of \$100 and the balance of the scholarship may be given to another able student majoring in German. If in any year no student qualifies for the award, it may be deferred and given to one or more qualified students at a later date. \$12,000.

Katharine Reeve Girard Prize (1964).

In memory of Katharine Reeve Girard '33, by her husband, Professor Richard A. Girard, and her friends. Awarded by the Faculty Committee on Honors to a student whose interests are in the international aspects of the work in her major field. Income on \$1,000.

Herrman Botanical Prize Fund (1892).

Mrs. Esther Herrman. Awarded to the most proficient undergraduate student in biology. Income on \$1,000.

Medal of the Hispanic Institute in the United States.

Awarded to an undergraduate for the best essay on Cervantes.

Frederic G. Hoffherr French Prize Fund (1961).

In memory of Frederic G. Hoffherr, Associate Professor of French from 1936 to 1955. Awarded annually to a student in Intermediate French (Course 3) for excellence in oral French. The prize is offered to encourage proficiency among students who are not themselves of French background. The winner is chosen on the basis of a contest sponsored by the French Department. Income on \$1,025.

The Elizabeth Janeway Prize for Prose Writing.

A prize of \$500 awarded annually. Open to all undergraduates for a work of prose, whether fiction or non-fiction, which gives the greatest evidence of creative imagination and sustained ability. All undergraduates who intend to enter the prize competition must notify the Chairman of the English Department of their intention to do so by November 1, at which time they will receive detailed instructions as to the requirements. The final manuscripts must be submitted to the chairman by March 15. The prize will be given at the discretion of a board of three judges chosen by the College and the donor.

Eleanor Keller Prizes (1968).

By bequest of Marguerite Mespoulet, Professor Emeritus of French at Barnard College, in memory of Eleanor Keller, Professor of Chemistry at Barnard College. One prize, not exceeding \$1,000, to be awarded annually to a member of the junior class, not necessarily a French major, who has an outstanding record in courses of French literature offered by the department. Another prize, not exceeding \$1,000, to be awarded annually to a member of the senior class, not necessarily a French major, who has an outstanding record in courses concerned with French culture. \$43,517.

Amy Loveman Memorial Fund (1956).

In memory of Amy Loveman '01, by her friends and classmates. First charge on the income shall be an annual prize of \$100 for the best original poem by a Barnard undergraduate. Terms of the competition will be announced by the English Department. The balance of the income shall be allocated to scholarships and shall be known as the Amy Loveman Scholarship. \$20,100.

The Lenore Marshall Prizes for Writing (1960).

For excellence in poetry and prose contributed to the undergraduate magazine. Adjudged by the donor, Mrs. Marshall, in consultation with the Department of English and the editors-in-chief, and awarded to promising young writers in need of financial aid. Two at \$100 each.

Sidney Miner Poetry Prize Fund (1962).

In memory of Sidney Louise Miner '14, by bequest of Rosemary Alice C. Thomas. Awarded annually by the Department of English to the senior major who has shown distinction in the reading, writing, and study of poetry: the judges to be members of the Department of English. Income on \$5,000.

The William Pepperell Montague Prize Fund (1949).

By William P. Montague, Lecturer, Instructor, and Professor of Philosophy at Barnard College from 1903 to 1949. Awarded to a student of Barnard College who, in the opinion of the members

of the Department of Philosophy, shows promise of distinction in the field of philosophy. Income on \$5,441.

Phoebe Morrison Memorial Prize Fund (1969).

Awarded upon recommendation of the Barnard College Political Science Department to a political science major planning to attend law school. Income on \$1,380.

The Helen Prince Memorial Prize Fund (1921).

In memory of his daughter, Helen C. Prince '22, by Julius Prince. Awarded to an undergraduate student for excellence in dramatic composition. Income on \$1,200.

Katharine E. Provost Memorial Prize Fund (1949).

In memory of Katharine E. Provost. Miss Provost was for twenty-three years Secretary and Assistant to the Controller of Barnard College and, at the time of her death, Superintendent of Buildings and Grounds. Awarded for superior work by an undergraduate major in economics. Income on \$1,000.

Caroline Gallup Reed Prize Fund (1916).

In memory of her mother, Mrs. Sylvanus Reed, by Mrs. William Barclay Parsons for the recognition of outstanding work either in the field of the origin of Christianity and early church history or in the general field of the history and theory of religion. Awarded to the student who shows the highest excellence in one of these fields of work. The award is made partly on the basis of an essay to be handed in by April 1. Details regarding the scope of the essay may be obtained from the Department of Religion. Income on \$1,000.

Marie Reimer Scholarship Fund (1953).

In honor of Professor Emeritus Marie Reimer, for many years Chairman of the Barnard College Department of Chemistry, by former students and friends. Awarded annually at the end of her junior year to an outstanding student majoring in chemistry. In case the winner does not need financial help, the award shall be a prize, the amount to be recommended by the Chemistry Department. The balance of the income shall be awarded by the Director of Financial Aid to an outstanding student at the end of her junior year who is majoring in chemistry and who has financial need. The students receiving financial aid from this fund shall be informed of the source of the award. \$5,075.

Bettina Buonocore Salvo Prize Fund (1966).

By bequest of Bettina Buonocore Salvo '16. Awarded annually to a deserving graduate or other student studying Italian, selected by the Department of Italian. Income on \$5,000.

Sylvia Kopald Selekman Prize Fund (1960).

In memory of Sylvia Kopald Selekman '20, by Janet Robb. Awarded by the Department of Economics to the freshman who is doing the best work in introductory economics. Income on \$1,000.

Henry Sharp Prize Fund (1970).

Established in memory of Henry Sharp, Professor of Geology at Barnard College from 1941 to 1967, by gifts of alumnae, family and friends. Awarded annually to an outstanding student majoring in the program on Environmental Conservation and Management. Income on \$2,248.

Spanish Prize (1959).

A prize of \$100 awarded annually to a Spanish major who, in the opinion of the Department, has done the most distinguished work in Spanish language and literature. \$2,500.

Speranza Italian Prize Fund (1911).

In memory of Carlo Leonardo Speranza, Instructor and Professor of Italian at Barnard College from 1890 to 1911, by a former student. Awarded to a student for excellence in Italian. Income on \$1,000.

Stains-Berle Prize Fund in Anglo-Saxon (1968).

In memory of her grandmothers, Caroline Foy Stains and Katharina Mohrherr Berle and in honor of Professor Cabell Greet, by Katherine G. Stains '52. Awarded annually to an undergraduate student for excellence in Anglo-Saxon language and literature. Income on \$1,000.

Jean Willard Tatlock Memorial Prize Fund (1917).

In memory of Jean Willard Tatlock '95, by her friends. Awarded to the undergraduate student most proficient in Latin. Income on \$1,250.

Rosemary Thomas Prize Fund in French (1966).

In honor of the poet Rosemary Thomas, by bequest of Helen Marie Carlson, a long-time member of the Barnard College French Department, awarded annually to the undergraduate student preferably, but not necessarily, a French major, who, in the opinion of the members of the Barnard College French Department, has shown the greatest evidence of a special sensitivity and awareness in her study of French poetic literature. Income on \$10,050.

Von Wahl Prize (1915).

In memory of Constance von Wahl, '12, President of the Undergraduate Association. Awarded to a student for excellence in biology, on the understanding that it is to be used to advance her knowledge in that field. If in any year no student stands out as eminently deserving of the prize, it is not awarded. Income on \$1,300.

Virginia B. Wright Art History Prize Fund (1969).

Awarded to the most promising senior majoring in Art History. Income on \$1,540.

The following prizes of Columbia University are by their terms open to students of Barnard College:

The Academy of American Poets Prize.

A prize of \$100, established by the Academy of American Poets for the best poem or group of poems by a student. Awarded by the Department of English of Columbia University at the close of the Spring Term. Manuscripts should be submitted prior to April 1. For further information consult the Chairman of the Department of English and Comparative Literature of the University.

Bennett Prize.

A prize established through a gift of \$1,000 from James Gordon Bennett may be awarded by the Faculty of Political Science, with the approval of the Chairman of the Bennett Prize Committee, for the best essay upon some subject of contemporary interest in the domestic or foreign policy of the United States. The competition is open to students not holding a Bachelor's degree who pursue

satisfactory courses in political science. Manuscripts should be submitted prior to the last day of classes of the Spring Term. For additional information consult Professor Joseph A. Rothschild.

The Bunner Medal.

The H. C. Bunner Gold Medal, in memory of Henry Cuyler Bunner, is awarded at Commencement to the candidate for a Columbia degree who shall present the best essay on any topic dealing with American literature selected in connection with course or seminar work in American literature and approved by the Chairman of the Bunner Prize Committee. For additional information consult Professor Carl Hovde.

Earle Prize in Classics.

A prize of \$50, in memory of Mortimer Lamson Earle, Instructor in Greek in Barnard College from 1889 to 1895 and from 1898 to 1900 and Professor of Classical Philology from 1900 to 1905, is awarded to a candidate for the degree of Bachelor of Arts, for excellence in sight translation of passages of Greek and Latin. For further information consult Professor James A. Coulter.

The Caroline Phelps Stokes Prize.

The Caroline Phelps Stokes Prize of about \$45 is awarded at Commencement to that student who has been a degree candidate for at least one academic year in Columbia College or Barnard College and who has written the best essay on any topic approved by the Stokes Prize Committee, which has been presented in course or seminar work. Material should be submitted by January 1. For additional information consult Professor Joseph A. Rothschild.

Van Rensselaer Prize.

To the candidate for a degree in Columbia University who is the author of the best example of English lyric verse. Material must be submitted by April 1. Applicants should submit not more than three poems of their own choice, aggregating not more than twenty pages. Income of the Marianna Griswold Van Rensselaer Fund, about \$50. For additional details consult the Department of English and Comparative Literature.

Woodberry Prize.

Established by the Woodberry Society as a memorial to George Edward Woodberry. Awarded every second year to an undergraduate student of the University for the best original poem. Material must be submitted by April 1. Applicants should submit not more than three poems of their own choice, aggregating not more than twenty pages, unless a single poem is submitted in excess of that amount. If, in the opinion of the committee of judges, no poem submitted in any prize year is worthy of this award, the prize will not be given. Awarded in 1969-70. Value of prize about \$100. For additional details consult the Chairman of the Department of English and Comparative Literature.

The following prize is also open to Barnard students:

Susan Huntington Vernon Prize.

A prize of about \$25, the annual income of the fund established in 1941 by pupils and friends of Mrs. Vernon, in tribute to her work at the Hispanic Institute, and augmented by her in 1943. The prize is awarded, on recommendation of the Chairman of the Department of Spanish, for the best original essay written in Spanish by a

senior whose native language is not Spanish, but who is taking language courses at Barnard, Mount Holyoke, Radcliffe, Smith, Vassar, or Wellesley.



The Associate Alumnae of Barnard College is made up of sixteen thousand members from all states of the Union and more than sixty foreign countries. The Associate Alumnae serve the College in three important ways: by interpreting Barnard to the community; by keeping local secondary school students informed about Barnard; and by aiding in the support of the College.

The Associate Alumnae functions through a group of officers, directors, and alumnae trustees elected by members of the Association. The central office of the Associate Alumnae is in Milbank Hall.

Barnard College Clubs, the Alumnae Council with nationwide membership, and a group of qualified and authorized alumnae make it possible to find spokesmen for Barnard at distances far from New York. Students who are considering Barnard may find it helpful to talk personally with the Barnard Area Representative living nearest them. A list of these representatives as well as officers of the Associate Alumnae is given below.

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	1889 to 1890	1899 to 1900	1909 to 1910	1914 to 1915	1919 to 1920	1924 to 1925
Undergraduates, Regular						
Seniors .....	....	40	62	123	87	126
Juniors .....	....	40	122	110	190	259
Sophomores .....	....	37	109	191	193	234
Freshmen	14	54	188	240	224	271
Unclassified students .....	....	....	....	....	....	57
	14	171	481	664	694	947
Special Students:						
Matriculated .....	....	21	24	32	39	....
Nonmatriculated .....	....	....	30	32	22	33
Departmental (1889-1896).....	22	....	....	....	....	....
Music students (1896-1904, 1914-1915).....	....	41	....	5	....	....
	22	62	54	69	61	33
Graduate Students.....						
(1890-1900)	....	82	....	....	....	....
Total Registration						
	36	315	535	733	755	980
Degrees Conferred:						
A.B. ....	....	39	88	141	139	198
B.S. (1909-1918) .....	....	....	2	8	5	....
A.M. (1898-1900).....	....	18	....	....	....	....
Ph.D. (1899-1900) .....	....	1	....	....	....	....

Total Bachelor's Degrees conferred 1893-1970: A.B., 16,218, B.S., 77.
† These figures represent registration in the Autumn Term plus students admitted in the Spring Term.

Group (1) M W F 9

Biology 1-2
 Biology 6
 Chemistry 2
 Economics 17, 18
 French 33
 German 1y
 German 2x
 History 11; 12
 Philosophy 1x (I)
 Religion 53
 Spanish 3, 4 (I)
 Spanish 6

Group (2) M W F 10

Art History 86
 Chemistry 61; 62
 Economics 1; 2 (I)
 English 67
 English 90
 French 20 (I)
 French 20x (I)
 German 4x
 Greek 11; 12
 History 25; 26
 History 51; 52
 Mathematics 7, 8
 Philosophy 1x, 1y (II)
 Philosophy 35, 36
 Physics 3, 4
 Political Science 27
 Political Science 23; 24
 Psychology 12
 Psychology 21
 Sociology 21
 Spanish 3, 4 (II)
 Spanish 11y (I)
 Spanish 13

Group (3) M W F 11

Biology 13
 Chemistry 31
 Chemistry 36
 Chemistry 59
 Classical Lit. 35
 English 63
 English 68
 French 20 (II)
 French 20x (II)
 French 21y
 French 31
 French 40
 German 7-8
 German 26x
 History 14; 15
 History 19; 20
 Latin 1-2

Latin 33y
 Music 1-2 (I)
 Philosophy 1x; 1y (III)
 Philosophy 43, 44
 Political Science 1; 2
 Psychology 30
 Sociology 33
 Sociology 36
 Spanish 3y
 Spanish 11y (II)
 Spanish 18
 Spanish 20
 Spanish 25

Group (4) M W F 1:10

Art History 1-2
 Biology 8
 Biology 15; 16
 Classical Lit. 32x
 English 51, 52
 English 59-60 (II)
 French 22x
 Geography 33
 German 3y
 German 56
 Latin 3; 4
 Music 1-2 (III)
 Philosophy 5
 Philosophy 84
 Psychology 17
 Psychology 20
 Psychology 27
 Sociology 34x
 Sociology 46
 Spanish 3, 4 (III)
 Spanish 4x
 Spanish 11
 Spanish 26

Group (5) M W F 2:10

Art History 88
 Biology 10
 Economics 26
 Economics 29; 30
 Education 3-4
 English 59-60 (I)
 English 69
 English 88
 German 27y
 History 65
 Philosophy 38
 Philosophy 75
 Philosophy 79
 Political Science 11
 Political Science 16
 Political Science 17
 Religion 25
 Sociology 41

Sociology 48

Spanish 23y

Group (6) Tu Th 9:10-10:25

Biology 17; 18

Chemistry 1

Chemistry 11

Chemistry 30

Economics 1, 2 (II)

Economics 10

English 76

French 20 (V)

French 44

History 64

Mathematics 31; 40

Philosophy 8

Philosophy 33

Political Science 25; 26

Psychology 9

Psychology 16

Psychology 25

Psychology 38

Group (7) Tu Th 10:35-11:50

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English 58

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History 53; 54

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Philosophy 77

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Political Science 7

Psychology 34

Religion 15, 16

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Sociology 50

Spanish 14

Spanish 17

Spanish 32

Group (8) Tu Th 11

Biology 5

Biology 7

History 84

Psychology 5; 8

Psychology 57; 68

Sociology 1, 2

Sociology 44

Group (9) Tu Th 2:10-3:25

Art History 45

Art History 48

Economics 7; 8

Economics 16

English 79; 80

English 83

English 86

French 20x (III)

French 39

German 15; 16

German 55

History 21; 22

History 30

Linguistics 21-22

Modern Greek 3; 4

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Philosophy 49

Political Science 13, 14

Political Science 19

Political Science 28

Political Science 31

Religion 26

Religion-History 64

Sociology 32

Sociology 45

Spanish 5

Spanish 12

Spanish 31

Group (10) M W F 3:10

Russian 9, 10

Sociology 47

Group (11)

Psychology 1x; 1y (Sections)

Group (12)

English 71

French 20x (III)

Music 1-2 (II)

Philosophy 1x; 1y (V)

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Art History 61

Art History 84

Economics 3

Economics 12

Economics 33

English 59-60 (IV)

English 84

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Group (14)

French 1-2 (Sections)

French 2x (Sections)

French 3; 3y (Sections)
 French 4; 4x (Sections)
 French 21, 22 (Sections)

Group (15)

German 1-2 (Sections)
 German 3; 4 (Sections)

Group (16)

Russian 1-2 (Sections)
 Russian 3-4 (Sections)

Group (17)

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 Chemistry 38

Group (0)

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 Art History 92
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 Economics 61, 62
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 English 2
 English 3, 4 (Sections)
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 English 7, 8
 English 11, 12
 English 13, 14
 English 21; 21y
 English 23
 English 27
 English 29
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 English 33, 34
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 English 40 (Sections)

English 82
 English 93; 93y
 English 97; 98 (Sections)
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 French 13; 14
 French 16
 French 51; 52
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 Geology 60
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